

Model 2000 MUTUAL CONDUCTANCE TUBE TESTER

TUBE CHART

SYMBOLS USED

- * - DIODE - Tube is good if meter reads over "DIODES O.K." line.
- ** - Read MUTUAL CONDUCTANCE on LO-SCALE (0-5000).

"NOTES" - Special notes are included under "Rated Gm" and "GAS" columns.

IMPORTANT

Always check tube listing for "NOTES" before inserting tube in its socket. Certain types, such as 1R6, will cause damage if levers are not pre-set as directed in "NOTES" column before you insert the tube.

TUBE DATA DIVISION

MERCURY ELECTRONICS CORP. • 1744 ROCKAWAY AVE. • HEWLETT, N.Y. 11557

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	Gm - Em	NOTES	
						Rated Gm Micromhos	GAS
0A2	L	0	8	All pins	P-1/5/13	OK if tube	glows
0A3	L	0	3	All pins	P-5/13	OK if tube	glows
0B2	L	0	8	All pins	P-1/5/13	OK if tube	glows
0B3	L	0	3	All pins	P-5/13	OK if tube	glows
0C3	L	0	3	All pins	P-5/13	OK if tube	glows
0D3/VR150	L	0	3	All pins	P-5/13	OK if tube	glows
0Z4	L	90	4		P-3/13		
"	L	90	4		P-5/13		
1A3*	A	85	7	G-2/5/6	G-2/6/12 P-11		
1A5	A	65	4		G-3/4/5/12 P-11		G-5
1A7	A	75	4		G-5/6/10/12 P-11		G-10
1AB6	A	53	7		G-2/3/4/12 P-11		G-4
1AD2				Due to varying arrangements of internal connections this tube cannot be tested.			
1AF4	A	50	7	G-5	G-2/3/6 P-11		G-6
1AH5	A	70	7		G-4/5/6/12 P-11		G-6
" *	A	75	7		G-3/12 P-11		
1AJ4	A	50	7	G-5	G-2/3/6 P-11		G-6
1AU2*	A	35	12	G-1/2/3/7/8/9	G-12 P-1/9/13		
1AX2*	A	90	9	G-1/6/9	G-2/8 P-10/13	Set 2/8 at	P for
"						SHORTS	
1AY2*	A	23	18		G-12 P-10/13		
"				If there is no socket 18 insert leads into pins 1 & 5 of socket 13.			
1B3*	A	60	4	G-1/3/5/8	G-12/13 P-10		
1B7	A	65	4		G-5/6/10/12 P-11		G-10
1BC2*	A	42	12	No short test	G-2/5/8 P-10/13	Ignore short indicator	
1BG2*	A	85	12		P-10/13		
"				Insert 2 base leads into pins 4&5 of socket - Cap goes to top lead.			
1BK2	A	60	12	No short test	G-2/8 P-10/13	Disregard short indicator	
1BQ2*	A	50	12	G-1/6/9	G-2/8 P-10/13	Set 2/8 at	P for
"						SHORTS	
1BX2*	A	60	12	No short test	G-2/8 P-10/13	Ignore short glow	
1BY2*	A	75	14	No short test	G-8 P-10/13	Ignore short glow on G-8	
1C1	A	60	7	G-5	G-3/4/6 P-11		G-6
1C3	A	53	7		G-2/3/4/12 P-11		G-4
1C7	A	80	4		G-5/6/10/12 P-11		G-10
1D5	A	60	4		G-3/4/10/12 P-11		G-10
1D8	A	65	4		G-6/10/12 P-11		G-10
"	A	55	4		G-3/4/5/12 P-11		G-5
" *	A	55	4		G-8/12 P-11		
1D13*	A	85	7	G-2/5/6	G-2/6/12 P-11		
1DK1	A	85	12		P-10/13		
"				Insert 2 base leads into pins 4&5 of socket.			
"				Cap goes to top lead.			
1DK29*	A	85	12		P-10/13		
"				Insert 2 base leads into pins 4&5 of socket.			
"				Cap goes to top lead.			
1DN5	A	65	7		G-2/3/6/12 P-11		G-6
" *	A	80	7		G-4/12 P-11		
1F2	A	60	7	G-5	G-2/3/6 P-11		G-6
1F3	A	55	7	G-5	G-2/3/6 P-11		G-6
1F5	A	60	4		G-3/4/5/12 P-11		G-5

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	Gm — Em	NOTES	
						Rated Gm Micromhos	GAS
1FD9	A	65	7		G-4/6/12 P-11		
"*	A	90	7		G-3/12 P-11		
1G3*	A	60	4	G-1/3/5/8	G-12 P-10/13		
1G6	A	55	4		G-3/4/12 P-11		G-4
"	A	55	4		G-5/6/12 P-11		G-5
1H2*	A	70	9	G-1/4/6/9	G-2/5/8 P-10/13	Set 2/5/8 at P for	
"						SHORTS	
1H5	A	65	4		G-3/10/12 P-11		G-10
"*	A	90	4		G-5/12 P-11		
1H6	B	58	4		G-3/6/12 P-11		G-6
"*	B	55	4		G-4/12 P-11		
"*	B	55	4		G-5/12 P-11		
1H35	A	53	7		G-2/3/4/12 P-11		G-4
1J3*	A	75	4	G-1/3/5/8	G-12 P-10/13		
1J6	A	60	4		G-3/4/12 P-11		G-4
"	A	60	4		G-5/6/12 P-11		G-5
1K3*	A	75	4	G-1/3/5/8	G-12 P-10/13		
1L4	A	60	7	G-5	G-2/3/6 P-11		G-6
1L6	A	75	7		G-2/3/4/6/12 P-11		G-4
1LA4	A	65	17		G-2/3/6/12 P-11		G-6
1LA6	A	75	17		G-3/4/6/12 P-11		G-6
1LB4	A	60	17		G-2/3/6/12 P-11		G-6
1LC5	A	55	17	G-5	G-2/3/6 P-11		G-6
1LC6	A	80	17		G-3/4/6/12 P-11		G-6
1LD5	A	60	17		G-2/6/12 P-11		G-6
"*	A	90	17		G-4/12 P-11		
1LE3	A	60	17		G-2/6/12 P-11		G-6
1LG5	A	55	17	G-5	G-2/3/6 P-11		G-6
1LH4	A	60	17		G-2/6/12 P-11		G-6
"*	A	95	17		G-4/12 P-11		
1LN5	A	65	17	G-5	G-2/3/6/12 P-11		G-6
1N2*	A	50	4	G-1/3/5/8	G-12 P-10/13		
1N5	A	60	4		G-4/10/12 P-11		G-10
1P10	B	55	7	G-2/5/6	G-2/3/4/6 P-11		G-3
1P11	B	55	7	G-5	G-2/3/6 P-11		G-6
1Q5	A	46	4		G-4/5/12 P-11		G-5
1R5	A	60	7	G-5	G-3/4/6 P-11		G-6
1R6*	A	60	12	G-1/6/9	G-2/8 P-10/13	Set 2/8 at P for	
"						SHORTS	
1RK23*	A	60	12	G-1/6/9	G-2/8 P-10/13	Set 2/8 at P for	
"						SHORTS	
1RK41	A	60	12	No short test	G-2/8 P-10/13	Disregard short in-	
"						dicator	
1S2*	A	60	12	G-1/6/9	G-2/8 P-10/13	Set 2/8 at P for	
"						SHORTS	
1S4	A	50	7	G-2/5/6	G-3/4 P-11		G-3
1S5	A	65	7		G-4/6/12 P-11		G-6
"*	A	90	7		G-3/12 P-11		
1T4	A	55	7	G-5	G-2/3/6 P-11		G-6
1U4	A	55	7	G-5	G-2/3/6 P-11		G-6
1U5	A	65	7		G-3/6/12 P-11		G-6
1U5	A	65	7		G-3/6/12 P-11		G-6
"*	A	80	7		G-4/12 P-11		
1U6	A	70	7		G-3/4/6/12 P-11		G-6
1V2*	A	60	12	G-1/2/3/7/8/9	G-12 P-1/8/9/13		
1X2*	A	60	12	No short test	G-2/8 P-10/13	Ignore short indicator	

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G _m – E _m		NOTES	
							Rated G _m Micromhos	G A S
1Z2*	A	40	7	G-3/4/6	G-2/5	P-10/13	Set 2/5 at	P for
"							SHORTS	
2AF4	B	14	8	G-1/2/6/7	G-2/6	P-1/7	6000	G-2/6
2AH2*	B	50	14	G-1/2/5/6/7/8	G-3/9	P-10/13	Set 3/9 at	P for
"							SHORTS	
2AS2				Due to varying arrangements of internal connections this tube cannot be tested.				
2AV2*	A	58	12	G-1/9	G-12	P-1/9/13		
2AZ2	A	35	12	G-1/6/9	G-2/8	P-10/13	Set 2/8 at	P for
"							SHORTS	
2B3*	B	50	4	G-1/3/5/8		P-10/13		
2BA2*	B	17	12	G-1/9	G-12	P-1/9/13		
2BJ2*	B	29	12	G-1/6/9	G-2/8	P-10/13	Set 2/8 at	P for
"							SHORTS	
2BN4	B	13	8	G-1/2/6/7	G-2/7	P-5	6000	G-2/7
2BU2*	B	58	14	G-2/5/7/9	G-8	P-10/13	Set 8 at P	for SHORT
2CN3*	B	44	4	G-3/5	G-12/13	P-10		
2CW4	B	45	1		G-4	P-2	9000	G-4
2CY5	B	16	8	G-2/7	G-1	P-5/6	8000	G-1
2D21	D	58	8	G-5/7	G-1/5/6/7	P-11		
2DL4	B	47	12	G-1/3/6/7/9	G-1/3/6/7/9	P-8	13,000	G-1/3/6/7/9
2DS4	B	50	1		G-4	P-2	9000	G-4
2DV4	B	20	2	G-1/2/4/6	G-4/6	P-1/2	11,500	G-4/6
2DZ4	B	30	8	G-1/2/6/7	G-2/6/11	P-1/7	6500	G-2/6
2E24	D	45	4	G-1/4/6	G-3/5/10	P-11		G-5
2E26	D	45	4	G-1/4/6	G-3/5/10	P-11		G-5
2E30	D	86	8	G-7	G-1/11	P-5/6	3400**	G-1
2EA5	B	27	8	G-2/7	G-1	P-5/6	8000	G-1
2EG4	A	65	1		G-4	P-2	12,500	G-4
2EN5*	B	25	8		G-2	P-11		
" *	B	25	8		G-7	P-11		
2ER5	B	30	8	G-1/7	G-2	P-5	10,000	G-2
2ES5	B	60	8	G-1/7	G-2	P-5	9000	G-2
2EV5	B	18	8	G-2/7	G-1	P-5/6	8000	G-1
2FH5	B	40	8	G-1/7	G-2	P-5	9000	G-2
2FQ5	B	27	8	G-1/7	G-2	P-5	11,000	G-2
2FS5	B	37	8	G-2/7	G-1	P-5/6	4000	G-1
2FV6	B	17	8		G-1	P-5/6	8000	G-1
2FY5	B	45	8	G-1/7	G-2	P-5	13,000	G-2
2GK5	B	18	8	G-17	G-2	P-5/11/13	15,000	G-2
2GU5	B	75	8	G-2/7	G-1	P-5/6	8000	G-1
2GW5	B	46	8	G-2/6	G-2/6	P-1	15,000	G-2/6
2HA5	B	43	8	G-2/7	G-1	P-5	14,000	G-1
2HQ5	B	47	8	G-2/7	G-1	P-5	15,000	G-1
2T4	B	11	8	G-1/2/6/7	G-2/6	P-1/7	7000	G-2/6
2V3*	B	90	4			P-10/13		
3A2*	B	60	12	G-1/6/9	G-2/8	P-10/13	Set 2/8 at	P for
"							SHORTS	
3A3*	B	55	4	G-1/3/5/8	G-12	P-10/13		
3A4	B	55	7	G-2/5/6	G-3/4	P-11		G-4
3A5	B	55	7	G-4	G-2/3	P-11		G-3
"	B	55	7	G-4	G-5/6	P-11		G-5
3A8	B	65	4	G-1	G-3/4/10	P-11		G-10
"	B	70	4	G-1	G-5/6	P-11		G-5
" *	B	75	4	G-1	G-8	P-11		
3AF4	B	15	8	G-1/2/6/7	G-2/6	P-1/7	6000	G-2/6

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	G A S
3AJ8	B	45	12		G-9	P-8	1200**	G-9
"	B	21	12		G-2	P-1/6	6000	G-2
3AL5*	B	30	8		G-2	P-11		
" *	B	30	8		G-7	P-11		
3AT2*	B	40	14	G-2/5/6/9	G-8	P-10/13	Set 8 at P for SHORTS	
3AU6	B	88	8		G-1	P-5/6	4000**	G-1
3AV6	B	100	8		G-1	P-7	800**	G-1
" *	B	90	8		G-5	P-11		
" *	B	90	8		G-6	P-11		
3AW2*	B	25	14	G-2/5/6/9	G-8	P-10/13	Set 8 at P for SHORTS	
3AW3*	B	55	4	G-1/3/5/8	G-12	P-10/13		
3B2*	B	65	4	Do not test	G-6/8	P-10/13	Pre-set 6/8 to G	
3B4	B	40	4		G-3/5/12	P-11		G-3/5
3BA6	B	80	8		G-1	P-5/6	4000**	G-1
3BC5	B	13	8	G-2/7	G-1	P-5/6	5000	G-1
3BE6	B	25	8		G-1	P-5/6	7000	G-1
3BF6	B	80	8		G-1	P-7	2000**	G-1
" *	B	90	8		G-5	P-11		
" *	B	90	8		G-6	P-11		
3BH2	B	37	15	G-1/9	G-2/8	P-10/13	Set 2/8 at P for SHORTS	
3BL2*	B	20	14	G-2/5/6/9	G-8	P-10/13	Set 8 at P for SHORTS	
3BM2*	B	20	14	G-2/5/6/9	G-8	P-10/13	Set 8 at P for SHORTS	
3BN2*	B	40	14	G-2/5/6/9	G-8	P-10/13	Set 8 at P for SHORTS	
3BN4	B	18	8	G-1/2/6/7	G-2/7	P-5	7000	G-2/7
3EN6	B	85	8		G-13	P-2/5/7		G-2
3BS2*	B	40	14	G-2/5/6/9	G-8	P-10/13	Set 8 at P for SHORTS	
3BT2*	C	60	14	No short test	G-8	P-10/13	Ignore short indicator	
3BU6	B	68	8		G-1	P-7	1500**	G-1
" *	B	70	8		G-5	P-11		
" *	B	70	8		G-6	P-11		
3BU8	B	40	12		G-7	P-2/3	1500**	G-7
"	B	40	12		G-7	P-2/8	1500**	G-7
3BW2	C	60	14	No short test	G-8	P-10/13	Ignore short glow	
3BX6	B	12	12	G-1/3	G-2	P-7/8	6000	G-2
3BY6	B	52	8		G-1	P-5/6	1900**	G-1
3BY7	B	14	12	G-1/3	G-2	P-7/8	7000	G-2
3BZ6	B	23	8		G-1	P-5/6	8000	G-1
3C2*	B	55	4	G-4/5/6/8	G-12	P-10/13		
3C4	B	53	7	G-5	G-2/3/6	P-11		G-6
3C6	B	60	17	G-7	G-3/4	P-11		
"	B	60	17	G-7	G-5/6	P-11		
3CA3*	B	60	4		G-12	P-10/13		
3CB6	B	15	8		G-1	P-5/6	6200	G-1
3CE5	B	20	8	G-2/7	G-1	P-5/6	7500	G-1
3CF6	B	15	8		G-1	P-5/6	6200	G-1
3CN3*	B	44	4	G-3/5	G-12/13	P-10		
3CS6	B	32	8		G-1	P-5/6	1100**	G-1
3CU3*	B	40	4	G-8	G-12/13	P-10		
3CV3	B	55	4	No short test	G-12	P-10/13		
3CY3*	B	80	4	G-1/3/5	G-13	P-10		
3CY5	B	16	8	G-2/7	G-1	P-5/6	8000	G-1
3CZ3*	B	80	4	G-8	G-13	P-10		
3D6	A	95	17	G-7	G-6	P-2/3	2400**	G-6
3DB3*	B	80	4	G-1/3/5	G-13	P-10		
3DC3*	B	60	4	G-1/3/5		P-10/13		

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	GAS
3DG4*	B	25	5		G-5/12	P-11		
"*	B	25	5		G-7/12	P-11		
3DJ3*	B	60	4	No short test		P-10/13		
3DK6	B	20	8		G-1	P-5/6	9000	G-1
3DT6	B	22	8		G-1	P-5/6	1000**	G-1
3DZ4	B	30	8	G-1/2/6/7	G-2/6/11	P-1/7	6500	G-2/6
3DZ11	B	85	8		G-13	P-2		G-2
3E5	B	65	7	G-5	G-6	P-2/3	1500**	G-6
3EA5	B	40	8	G-2/7	G-1	P-5/6	8000	G-1
3EH7	B	15	12	G-1/3	G-2	P-7/8	12,500	G-2
3EJ7	B	25	12	G-1/3	G-2	P-7/8	15,000	G-2
3EM7	B	17	3		G-1	P-2	7200	G-1
"	B	90	3		G-4	P-5	1000**	G-4
3ER5	B	34	8	G-1/7	G-2	P-5/6	10,000	G-2
3ES5	B	60	8	G-1/7	G-2	P-5	9000	G-2
3EV5	B	18	8	G-2/7	G-1	P-5/6	8800	G-1
3FH5	B	60	8	G-1/7	G-2	P-5	9000	G-2
3FQ5	B	40	8	G-1/7	G-2	P-5	11,000	G-2
3FS5	B	37	8	G-2/7	G-1	P-5/6	4000	G-1
3FY5	B	45	8	G-1/7	G-2	P-5	13,000	G-2
3GK5	B	18	8	G-1/7	G-2	P-5/11/13	15,000	G-2
3GS8	B	40	12		G-7	P-2/3	1500**	G-7
"	B	40	12		G-7	P-2/8	1500**	G-7
3GU5	B	75	8	G-2/7	G-1	P-5/6	8000	G-1
3GW5	B	46	8	G-2/6	G-2/6	P-1	15,000	G-2/6
3HA5	B	43	8	G-2/7	G-1	P-5	14,000	G-1
3HE7*	B	12	14	G-10	G-2	P-11		
"	B	20	14	G-10	G-9	P-1/5	8800	G-9
3HF5	B	29	14	G-1/3/4/5/6/8	G-5/9/11	P-1/3/6/8	7000	G-5/9
"				/9/10				
3HM6	B	30	12	G-1/3	G-2	P-7/8	15,000	G-2
3HQ5	B	47	8	G-2/7	G-1	P-5	15,000	G-1
3HS8	B	20	12		G-7	P-2/3/8	1100**	G-7
3HT6	B	25	12	G-1/3	G-2	P-7/8	14,000	G-2
3JC6	B	35	12	G-1/3	G-2	P-7/8	15,000	G-2
3JD6	B	29	12	G-1/3	G-2	P-7/8	14,000	G-2
3KF8	B	66	12		G-7	P-2/3	2000**	G-7
"	B	66	12		G-7	P-2/8	2500**	G-7
3KT6	B	37	12	G-1/3	G-2	P-7/8	18,000	G-2
3LF4	B	55	17	G-7	G-2/3/6	P-11		G-6
3MP26	B	83	8		G-1/11	P-5/6	3400**	G-1
3MR24	B	18	8		G-1	P-5/6	9500	G-1
3MV7	B	23	8		G-1	P-5/6	8500	G-1
3Q4	B	52	7	G-2/5/6	G-2/3/4/6	P-11		G-3
3Q5	B	55	4	G-8	G-3/4/5	P-11	G-5	G-5
3S4	B	55	7	G-2/5/6	G-2/3/4/6	P-11		G-3
3V4	B	55	7	G-5	G-2/3/6	P-11		G-6
4A6	C	55	4	G-8	G-3/4	P-11		G-4
"	C	55	4	G-8	G-5/6	P-11		G-5
4AB8	C	65	12		G-2	P-1	5000	G-2
"	C	44	12		G-9	P-6/8	10,000	G-9
4AU6	C	85	8		G-1	P-5/6	4000**	G-1
4AV6	C	100	8		G-1	P-7	850**	G-1
"*	C	90	8		G-5	P-11		
"*	C	90	8		G-6	P-11		
4BA6	C	80	8		G-1	P-5/6	4000**	G-1

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm - Em		NOTES	
							Rated Gm Micromhos	GAS
4BC5	C	13	8	G-2/7	G-1	P-5, 6	5000	G-1
4BC8	C	20	12		G-2	P-1	6200	G-2
"	C	20	12		G-7	P-6	6000	G-7
4BE6	C	25	8		G-1	P-5/6	7000	G-1
4BK7	C	26	12		G-2	P-1	9000	G-2
"	C	26	12		G-7	P-6	9000	G-7
4BL8	C	18	12		G-2	P-3/6	6000	G-2
"	C	15	12		G-9	P-1	5000	G-9
4BN4	C	18	8	G-1/2/6/7	G-2/7	P-5	7000	G-2/7
4BN6	C	85	8		G-13	P-2/5/7		G-2
4BQ7	C	20	12		G-2	P-1	6000	G-2
"	C	20	12		G-7	P-6	6000	G-7
4BS8	C	22	12		G-2	P-1	7000	G-2
"	C	22	12		G-7	P-6	7000	G-7
4BU8	C	40	12		G-7	P-2/3	1500**	G-7
"	C	40	12		G-7	P-2/8	1500**	G-7
4BX8	C	15	12		G-2	P-1	6700	G-2
"	C	15	12		G-7	P-6	6700	G-7
4BY6	C	45	8		G-1	P-5/6	1900**	G-1
4BZ6	C	21	8		G-1	P-5/6	8000	G-1
4BZ7	C	20	12		G-2	P-1	6800	G-2
"	C	20	12		G-7	P-6	6800	G-7
4BZ8	C	40	12		G-2	P-1	8000	G-2
"	C	40	12		G-7	P-6	8000	G-7
4CB6	C	15	8		G-1	P-5/6	6200	G-1
4CE5	C	24	8	G-2/7	G-1	P-5/6	7500	G-1
4CF6	C	15	8		G-1	P-5/6	6200	G-1
4CM6	C	90	12	G-3/6	G-3/6	P-1/9	3900**	G-3/6
4CS6	C	20	8		G-1	P-5/6	1100**	G-1
4CY5	C	17	8	G-2/7	G-1	P-5/6	8000	G-1
4DE6	C	18	8		G-1	P-5/6	8000	G-1
4DK6	C	22	8		G-1	P-5/6	9800	G-1
4DT6	C	25	8		G-1	P-5/6	1000**	G-1
4EH7	C	15	12	G-1/3	G-2	P-7/8	12,500	G-2
4EJ7	C	25	12	G-1/3	G-2	P-7/8	15,000	G-2
4ER5	C	50	8	G-1/7	G-2	P-5/6	10,000	G-2
4ES8	C	90	12		G-2/11	P-1	8000	G-2
"	C	90	12		G-7/11	P-6	8000	G-7
4EW6	C	35	8		G-1	P-5/6	11,000	G-1
4FY5	C	45	8	G-1/7	G-2	P-5	13,000	G-2
4GJ7	C	15	12	G-1/3	G-9	P-8	9000	G-9
"	C	18	12	G-1/3	G-2	P-6/7	11,000	G-2
4GK5	C	18	8	G-1/7	G-2	P-5/11/13	15,000	G-2
4GM6	C	33	8		G-1	P-5/6	13,000	G-1
4GS7	C	18	12	G-3/8	G-1	P-2	5500	G-1
"	C	45	12	G-3/8	G-9	P-6/7	12,000	G-9
4GS8	C	40	12		G-7	P-2/3	1500**	G-7
"	C	40	12		G-7	P-2/8	1500**	G-7
4GW5	C	46	8	G-2/6	G-2/6	P-1	15,000	G-2/6
4GX6	C	58	8		G-1	P-5/6	3700**	G-1
4GX7	C	27	12	G-1/3	G-9	P-3	8500	G-9
"	C	31	12	G-1/3	G-2	P-6/7	11,000	G-2
4GZ5	C	15	8	G-2/5	G-2/5	P-6/7	8000	G-2/5
4HA5	C	40	8	G-2/7	G-1	P-5	14,000	G-1
4HA7	C	100	14		G-1	P-2	800**	G-1
"	C	75	14		G-9	P-10	2200**	G-9

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m — Em		NOTES	
							Rated Gm Micromhos	G A S
4HC7	C	33	14	G-7/10	G-9	P-7/10	4400	G-9
"	C	95	14	G-7/10	G-1	P-2	1000**	G-1
4HG8	C	15	12	G-1/3	G-6	P-7	7000	G-6
"	C	23	12	G-1/3	G-2	P-8/9	10,000	G-2
4HM6	C	30	12	G-1/3	G-2	P-7/8	15,000	G-2
4HQ5	C	47	8	G-2/7	G-1	P-5	15,000	G-1
4HR8	C	95	12	G-2/7	G-9	P-1/6		G-9
4HS8	C	20	12		G-7	P-2/3/8	1100**	G-7
4HT6	C	25	12	G-1/3	G-2	P-7/8	14,000	G-2
4JC6	C	38	12	G-1/3	G-2	P-7/8	15,000	G-2
4JD6	C	29	12	G-1/3	G-2	P-7/8	14,000	G-2
4JH6	C	26	8		G-1	P-5/6	8000	G-1
4JK6	C	31	8		G-1	P-5/6	18,000	G-1
4JL6	C	20	8		G-1	P-5/6	15,500	G-1
4JN8	C	27	12		G-1	P-2	8500	G-1
"	C	24	12		G-9	P-6/7	7500	G-9
4JW8	C	90	12		G-9	P-1	2000**	G-9
"	C	27	12		G-2	P-3/6	5500	G-2
4KE8	C	40	12		G-9	P-1	8000	G-9
"	C	54	12		G-2	P-3/6	12,000	G-2
4KF8	C	66	12		G-7	P-2/3	2000**	G-7
"	C	66	12		G-7	P-2/8	2500**	G-7
4KN8	C	30	12		G-7	P-6	16,000	G-7
"	C	30	12		G-2	P-1	16,000	G-2
4KT6	C	37	12	G-1/3	G-2	P-7/8	18,000	G-2
4LJ8	C	69	12	G-3/8	G-9	P-6/7	13,000	G-9
"	C	28	12	G-3/8	G-1	P-2	8000	G-1
4LU6	C	16	8		G-1	P-5/6	8000	G-1
4MK8	C	50	12		G-7	P-2/3	1600**	G-7
"	C	50	12		G-7	P-2/8	1600**	G-7
4MP12	C	18	8		G-1	P-5/6	5500	G-1
4MP26	C	83	8		G-1/11	P-5/6	3400**	G-1
4RHH2	C	20	12		G-2	P-1	6000	G-2
"	C	20	12		G-7	P-6	6000	G-7
4RHH8	C	30	12		G-7	P-6	16,000	G-7
"	C	30	12		G-2	P-1	16,000	G-2
4RHH15	C	33	12		G-2	P-1	8000	G-2
"	C	33	12		G-7	P-6	8000	G-7
5AF4	C	15	8	G-1/2/6/7	P-2/6	P-1/7	6000	G-2/6
5AM8	C	20	12		G-2	P-3/6	7800	G-2
" *	C	25	12		G-8	P-11		
5AN8	C	70	12		G-2	P-1	3300**	G-2
"	C	15	12		G-8	P-6/7	6200	G-8
5AQ5	C	90	8	G-1/7	G-1/7	P-5/6	3700**	G-1/7
5AR4*	C	30	6		G-4/12	P-11		
" *	C	30	6		G-6/12	P-11		
5AS4*	C	30	6		G-4/12	P-11		
" *	C	30	6		G-6/12	P-11		
5AS8	C	15	12		G-2	P-1/9	6200	G-2
" *	C	25	12		G-6	P-11		
5AT8	C	22	12		G-1	P-2	5800	G-1
"	C	78	12		G-9	P-6/7	4000**	G-9
5AU4*	C	30	6		G-4/12	P-11		
" *	C	30	6		G-6/12	P-11		
5AV8	C	72	12		G-2	P-3	3300**	G-2
"	C	16	12		G-6	P-8/9	6000	G-6

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m — Em		NOTES	
							Rated Gm Micromhos	G A S
5AW4*	C	20	6		G-4/12	P-11		
"*	C	20	6		G-6/12	P-11		
5B8	C	72	12	G-1	G-2	P-3	3300**	G-2
"	C	13	12	G-1	G-6	P-8/9	6000	G-6
5BC8	C	20	12		G-2	P-1	6200	G-2
"	C	20	12		G-7	P-6	6200	G-7
5BE6	C	25	8		G-1	P-5/6	7000	G-1
5BE8	C	32	12	G-3	G-1	P-2	8500	G-1
"	C	17	12	G-3	G-9	P-6/7	5000	G-9
5BK5	C	20	12	G-3/7	G-3/7	P-1/8	8500	G-3/7
5BK7	C	26	12		G-2	P-1	9000	G-2
"	C	26	12		G-7	P-6	9000	G-7
5BM8	C	35	12		G-1	P-2	8000	G-1
"	C	49	12		G-9	P-6/7	12,000	G-9
5BQ7	C	20	12		G-2	P-1	6400	G-2
"	C	20	12		G-7	P-6	6400	G-7
5BR8	C	28	12		G-1	P-2	8500	G-1
"	C	15	12		G-9	P-6/7	5200	G-9
5BS8	C	22	12		G-2	P-1	7000	G-2
"	C	22	12		G-7	P-6	7000	G-7
5BT8	C	20	12		G-8	P-6/7	6200	G-8
"*	C	45	12		G-1	P-11		
"*	C	45	12		G-2	P-11		
5BW8	C	20	12	G-7	G-5	P-8/9	5200	G-6
"*	C	25	12	G-7	G-1	P-11		
"*	C	25	12	G-7	G-3	P-11		
5BZ7	C	20	12		G-2	P-1	6800	G-2
"	C	20	12		G-7	P-6	6800	G-7
5CG8	C	22	12	G-3/8	G-1	P-2	5800	G-1
"	C	16	12	G-3/8	G-9	P-6/7	4600	G-9
5CH7	C	15	12	G-8/9	G-2	P-1	6800	G-2
"	C	15	12	G-8/9	G-7	P-6	6800	G-7
5CL8	C	30	12		G-1	P-2	8000	G-1
"	C	15	12		G-9	P-6/7	6000	G-9
5CM6	C	90	12	G-3/6	G-3/6	P-1/9	3900**	G-3/6
5CM8	C	18	12		G-2	P-6/7	6200	G-2
"	C	100	12		G-9	P-1	1000**	G-9
5CQ8	C	18	12		G-2	P-3/6	5800	G-2
"	C	29	12		G-9	P-1	8000	G-9
5CR8	C	17	12		G-2	P-6/7	7700	G-2
"	C	17	12		G-9	P-1	4000	G-9
5CU4*	C	15	6		G-4	P-11		
"*	C	15	6		G-6	P-11		
5CZ5	C	23	12	G-3/6	G-3/6/11	P-1/9	4500	G-3/6
5DB5	C	32	12	G-2/3/6/7/8	G-3/6/11	P-1/9	8000	G-3/6
5DH8	C	27	12	G-3	G-1	P-2	4400	G-1
"	C	19	12	G-3	G-9	P-6/7	8600	G-9
5DJ4*	C	25	4	G-3/4/5/6/8	G-1/13	P-3/4	Set 1 at P for	
"							SHORTS	
"*	C	25	4	G-3/4/5/6/8	G-1/13	P-5/6	Set 1 at P for	
"							SHORTS	
5EA8	C	18	12		G-2	P-3/6	6400	G-2
"	C	25	12		G-9	P-1	8000	G-9
5EH8	C	28	12	G-1/6	G-2	P-3	7500	G-2
"	C	19	12	G-1/6	G-7	P-8/9	6000	G-7

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	GAS
5ES8	C	90	12		G-2/11	P-1	8000	G-2
"	C	90	12		G-7/11	P-6	8000	G-7
5EU8	C	25	12		G-2	P-3	8000	G-2
"	C	16	12		G-7	P-1/9	6000	G-7
5EW6	C	35	8		G-1	P-5/6	11,000	G-1
5FG7	C	23	12	G-3/8	G-1	P-2	7500	G-1
"	C	17	12	G-3/8	G-9	P-6/7	6000	G-9
5FV8	C	30	12		G-1	P-2	8000	G-1
"	C	17	12		G-9	P-6/7	6500	G-9
5GH8	C	27	12		G-2	P-3/6	7500	G-2
"	C	27	12		G-9	P-1	8500	G-9
5GJ7	C	15	12	G-1/3	G-9	P-8	9000	G-9
"	C	18	12	G-1/3	G-2	P-6/7	11,000	G-2
5GM6	C	33	8		G-1	P-5/6	13,000	G-1
5GS7	C	18	12	G-3/8	G-1	P-2	5500	G-1
"	C	45	12	G-3/8	G-9	P-6/7	12,000	G-9
5GX6	C	58	8		G-1	P-5/6	3700**	G-1
5GX7	C	27	12	G-1/3	G-9	P-8	8500	G-9
"	C	31	12	G-1/3	G-2	P-6/7	11,000	G-2
5HA7	C	100	14		G-1	P-2	800**	G-1
"	C	75	14		G-9	P-10	2200**	G-9
5HB7	C	21	12	G-1/3	G-2	P-6/7	6400	G-2
"	C	25	12	G-1/3	G-9	P-8	8500	G-9
5HC7	C	33	14	G-7/10	G-9	P-7/10	4400	G-9
"	C	95	14	G-7/10	G-1	P-2	1000**	G-1
5HG8	C	15	12	G-1/3	G-6	P-7	7000	G-6
"	C	23	12	G-1/3	G-2	P-8/9	10,000	G-2
5HZ6	C	58	8		G-1	P-5/6	3400**	G-1
5J6	C	26	8		G-6	P-1	5300	G-6
"	C	26	8		G-5	P-2	5300	G-5
5JK6	C	31	8		G-1	P-5/6	18,000	G-1
5JL6	C	20	8		G-1	P-5/6	15,500	G-1
5JW8	C	90	12		G-9	P-1	2000**	G-9
"	C	27	12		G-2	P-3/6	5500	G-2
5KD8	C	17	12		G-2	P-3/6	5000	G-2
"	C	32	12		G-9	P-1	7500	G-9
5KE8	C	25	12		G-9	P-1	7500	G-9
"	C	35	12		G-2	P-3/6	10,000	G-2
5KZ8	C	26	12		G-2	P-6/7	7500	G-2
"	C	37	12		G-9	P-1	8500	G-9
5LJ8	C	38	12	G-3/8	G-9	P-6/7	13,000	G-9
"	C	28	12	G-3/8	G-1	P-2	8000	G-1
5MB8	C	40	12		G-1	P-2	8000	G-1
"	C	48	12		G-9	P-6/7	12,000	G-9
5MF8	C	95	14	G-6/7	G-6/7/11	P-4/8	4100**	G-6/7
"	C	92	14	G-6/7	G-10	P-2	4100**	G-10
5MHH3	C	25	8		G-6	P-1	5300	G-6
"	C	25	8		G-5	P-2	5300	G-5
5MK9*	C	30	8		G-5/12	P-11		
5MQ8	C	15	12		G-2	P-3/6	10,000	G-2
"	C	26	12		G-9	P-1	8500	G-9
5P29	D	35	4		G-4/5/10	P-11	14,300	G-5
5R4*	C	30	6		G-4/12	P-11		
"*	C	30	6		G-6/12	P-11		

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G _m — E _m		NOTES	
							Rated G _m Micromhos	G A S
5RDDH1	C	73	12		G-8	P-7/13	1600	G-8
" *	C	25	12		G-1	P-11		
" *	C	25	12		G-6	P-11		
5RHP1	C	18	12		G-2	P-3/6	6000	G-2
"	C	15	12		G-9	P-1	5000	G-9
5RHR1	C	28	12		G-9	P-1	7500	G-9
"	C	16	12		G-2	P-3/6	10,000	G-2
5RK16*	C	30	12		G-8/12	P-11		
" *	C	30	12		G-1/2	P-11		
5T4*	C	20	6		G-4/12	P-11		
" *	C	20	6		G-6/12	P-11		
5T8	C	95	12		G-8	P-9	1000**	G-8
" *	C	25	12		G-1	P-11		
" *	C	25	12		G-2	P-11		
" *	C	25	12		G-2	P-11		
" *	C	25	12		G-6	P-11		
5U4*	C	30	6		G-4/12	P-11		
" *	C	30	6		G-6/12	P-11		
5U8	C	28	12		G-9	P-1	8500	G-9
"	C	15	12		G-2	P-3/6	5000	G-2
5U9	C	28	13		G-3	P-7/8	12,000	G-3
"	C	16	13		G-10	P-9	5000	G-10
5V3*	C	30	6		G-4/12	P-11		
" *	C	30	6		G-6/12	P-11		
5V4*	C	30	6		G-4/12	P-11		
" *	C	30	6		G-6/12	P-11		
5V6	C	30	4		G-5/11	P-3/4	5000	G-5
5V9	C	60	13		G-3	P-2/4/7		G-3
"	C	62	13		G-8	P-10		G-8
5W4*	C	25	6		G-4/12	P-11		
" *	C	25	6		G-6/12	P-11		
5X4*	C	20	3		G-3/12	P-11		
" *	C	20	3		G-5/12	P-11		
5X8	C	27	12		G-2	P-3	6500	G-2
"	C	20	12		G-7	P-8/9	5500	G-7
5X9	C	18	13		G-3	P-4/7/8	14,000	G-3
"	C	35	13		G-10	P-9	4800	G-10
5Y3*	C	40	6		G-4/12	P-11		
" *	C	40	6		G-6/12	P-11		
5Y4*	C	25	3		G-3/12	P-11		
" *	C	25	3		G-5/12	P-11		
5Z4*	C	20	6		G-4/12	P-11		
" *	C	20	6		G-6/12	P-11		
6A5	D	28	4	G-8	G-5/12	P-3	3000**	G-5
6A8	D	55	4		G-5/10	P-3/4/6	1150**	G-5
6AB4	D	100	8		G-6	P-1	4000**	G-6
6AB7	D	17	4		G-4	P-6/8	5000	G-4
6AB8	D	75	12		G-2	P-1	1100**	G-2
"	D	17	12		G-9	P-6/8	5000	G-9
6AC5	D	100	4		G-5	P-3	1000**	G-5
6AC7	D	20	4		G-4	P-6/8	9000	G-4
6AC9	D	34	14	G-3	G-9	P-1/10	10,000	G-9
" *	D	24	14	G-3	G-2	P-11		
6AC10	D	50	14		G-1	P-2	5800	G-1
"	D	43	14		G-9	P-10	5800	G-9
"	D	46	14		G-7	P-5	5800	G-7

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	GAS
6AD7	D	85	4		G-5	P-3/4	2500**	G-5
"	D	85	4		G-1/6	P-11		G-1
6AD10	D	14	14		G-3	P-6/7	1000**	G-3
"	D	45	14		G-8/11	P-1/10	6500	G-8
6AF3*	D	35	12	G-1/2/3/6/7/8/9	G-2/9	P-11		
6AF4	D	15	8	G-1/2/6/7	G-2/6	P-1/7	6000	G-2/6
6AF6	D	0	4			P-3/4/5/13	OK if target glows	
6AF9	D	21	13	G-2	G-1	P-3/4	8500	G-1
"	D	21	13	G-2	G-8	P-9/10	22,000	G-8
6AF11	D	90	14		G-1/11	P-2/10	10,000	G-1
"	D	40	14		G-6	P-8	5500	G-6
"	D	35	14		G-3	P-4	4400	G-3
6AG5	D	70	8	G-2/7	G-1	P-5/6	4000**	G-1
6AG7	D	18	4		G-4	P-6/8	10,000	G-4
6AG9	D	20	14		G-5	P-7	4600	G-5
"	D	44	14		G-1	P-2/10	20,000	G-1
6AG11*	D	25	14		G-3	P-11		
" *	D	25	14		G-10	P-11		
"	D	40	14		G-5	P-6	7500	G-5
"	D	40	14		G-8	P-7	7500	G-8
6AG12	D	85	8		G-1	P-5		G-1
6AH4	D	80	4		G-1/11	P-5	4000**	G-1
6AH6	D	25	8		G-1	P-5/6	11,000	G-1
6AH7	D	70	4	G-8	G-1	P-3	1500**	G-1
"	D	70	4	G-8	G-5	P-6	1500**	G-5
6AH9	D	64	14	G-5/6	G-2	P-3	2750**	G-2
"	D	22	14	G-5/6	G-5/8	P-1/8	21,000	G-5/6
6AJ5	D	32	8	G-2/7	G-1	P-5/6	2500**	G-1
6AJ8	D	45	12		G-9	P-8	1200**	G-9
"	D	21	12		G-2	P-1/6	6000	G-2
6AJ9	D	26	12		G-10	P-9	10,000	G-10
"	D	16	12		G-3	P-7/8	14,000	
6AK5	D	15	8	G-2/7	G-1	P-5/6	5000	G-1
6AK6	D	80	8		G-1	P-5/6	2500**	G-1
6AK8	D	95	12		G-8	P-9	1000**	G-8
" *	D	25	12		G-1	P-11		
" *	D	25	12		G-2	P-11		
" *	D	25	12		G-6	P-11		
6AK9	D	40	14		G-8/13	P-5/9	16,400	G-8
"	D	40	14		G-10	P-11	3900**	G-10
"	D	60	14		G-3	P-2	8500	G-3
6AK10	D	20	14		G-1	P-2	7000	G-1
"	D	20	14		G-7	P-5	7000	G-7
"	D	20	14		G-9	P-10	7000	G-9
6AL3*	D	30	12	G-1/2/3/6/7/8/9	G-1/2/3/6/7/8/9	P-11		
6AL5*	D	25	8		G-2	P-11		
" *	D	25	8		G-7	P-11		
6AL7	D	0	4		G-1/4/5/6	P-3/13	OK if tube glows both sect.	
6AL9	D	40	14		G-5	P-7	6300	
"	D	21	14		G-1	P-2/10	20,000	
6AL11	D	30	14		G-3	P-6/7	1000	G-3
"	D	58	14		G-8/11	P-1/10	6500	G-8
6AM4	D	75	9	G-1/3/4/6/9	G-1/3/4/6/9	P-5	9800	G-1/3/4/6/9
6AM5	D	67	8		G-1	P-5/7	2600**	G-1

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m — E m		NOTES	
							Rated Gm Micromhos	G A S
6AM6	D	27	8		G-1	P-5/7	7600	G-1
6AM8	D	20	12		G-2	P-3/6	7800	G-2
" *	D	25	12		G-8	P-11		
6AN4	D	50	8	G-1/2/6/7	G-2/6	P-1/7	10,000	G-2/6
6AN5	D	15	8	G-2/7	G-1	P-5/6	8000	G-1
6AN6*	D	45	7		G-2	P-11		
" *	D	45	7		G-3	P-11		
" *	D	45	7		G-4	P-11		
" *	D	45	7		G-5	P-11		
6AN8	D	70	12		G-2	P-1	3300**	G-2
"	D	15	12		G-8	P-6/7	6200	G-8
6AQ4	D	74	8	G-1/2/5/6	G-1/6	P-7	10,000	G-1/6
6AQ5	D	90	8	G-1/7	G-1/7	P-5/6	3700**	G-1/7
6AQ6	D	100	8		G-1	P-7	1150**	G-1
" *	D	70	8		G-5	P-11		
" *	D	70	8		G-6	P-11		
6AQ7	D	100	3		G-4	P-5	1000**	G-4
" *	D	65	3		G-1	P-11		
" *	D	65	3		G-3	P-11		
6AQ8	D	30	12		G-2	P-1	6000	G-2
"	D	30	12		G-7	P-6	6000	G-7
6AR5	D	85	8		G-1	P-5/6	2400**	G-1
6AR8	D	47	12		G-6	P-3/8	4000	G-6
"	D	47	12		G-6	P-3/9	4000	G-6
6AR11	D	45	14		G-5	P-2/3	10,500	G-5
"	D	45	14		G-10	P-8/9	10,500	G-10
6AS5	D	23	8	G-2/5	G-2/5/11	P-6/7	5600	G-2/5
6AS6	D	65	8		G-1	P-5/6	3200**	G-1
6AS7	D	60	3		G-1/11	P-2	7000	G-1
"	D	60	3		G-4/11	P-5	7000	G-4
6AS8	D	15	12		G-2	P-1/9	6200	G-2
" *	D	25	12		G-6	P-11		
6AS11	D	20	14		G-1	P-2/10	10,500	G-1
"	D	42	14		G-6	P-8	5500	G-6
"	D	35	14		G-3	P-4	4400	G-3
6AT6	D	90	8		G-1	P-7	1000**	G-1
" *	D	90	8		G-5	P-11		
" *	D	90	8		G-6	P-11		
6AT8	D	22	12		G-1	P-2	5800	G-1
"	D	78	12		G-9	P-6/7	4000**	G-9
6AU4*	D	25	3		G-5	P-11		
6AU5	D	27	4		G-1/11	P-5/8	5600	G-1
6AU6	D	85	8		G-1	P-5/6	4000**	G-1
6AU7	D	90	12	G-9	G-2	P-1	3000**	G-2
"	D	90	12	G-9	G-7	P-6	3000**	G-7
6AU8	D	39	12		G-2	P-3	5300	G-2
"	D	18	12		G-7	P-8/9	8000	G-7
6AV5	D	40	4		G-1/5/8	P-11		G-1
6AV6	D	100	8		G-1	P-7	850**	G-1
" *	D	90	8		G-5	P-11		
" *	D	90	8		G-6	P-11		
6AV11	D	80	14		G-1	P-2	2200**	G-1
"	D	80	14		G-7	P-5	2200**	G-7
"	D	80	14		G-9	P-10	2200**	G-9
6AW8	D	50	12		G-2	P-3	4000	G-2
"	D	12	12		G-7	P-8/9	9000	G-7

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	G A S
6AX3*	D	25	14	G-4/10	G-4/10	P-11		
6AX4*	D	30	3		G-5	P-11		
6AX5*	D	35	4		G-3	P-11		
"*	D	35	4		G-5	P-11		
6AX7	D	100	12	G-9	G-2	P-1	1000**	G-2
"	D	100	12	G-9	G-7	P-6	1000**	G-7
6AX8	D	15	12		G-2	P-3/6	4800	G-2
"	D	28	12		G-9	P-1	8500	G-9
6AY3*	D	25	16	G-1/2/3/6/7/ 8/9	G-2/7	P-11		
6AY11	D	100	14		G-5	P-6	1000**	G-5
"	D	100	14		G-8	P-7	1000**	G-8
"*	D	30	14		G-3	P-11		
"*	D	30	14		G-10	P-11		
6AZ8	D	14	12		G-6	P-1/2	6000	G-6
"	D	78	12		G-9	P-8	3300**	G-9
6B4	D	40	4		G-3/5/12	P-11		G-5
6B8	D	70	4		G-10	P-3/6	1000**	G-10
"*	D	70	4		G-4	P-11		
"*	D	70	4		G-5	P-11		
6B10	D	80	14		G-3	P-4	2500**	G-3
"	D	80	14		G-5	P-6	2500**	G-5
"*	D	25	14		G-8	P-11		
"*	D	25	14		G-10	P-11		
6B32*	D	25	8		G-2	P-11		
"*	D	25	8		G-7	P-11		
6BA3*	D	30	16	G-2/7	G-2/7	P-11		
6BA6	D	80	8		G-1	P-5/6	4000**	G-1
6BA7	D	17	12	G-6/8	G-2	P-1/9	8000	G-2
6BA8	D	65	12		G-2	P-3	2700**	G-2
"	D	12	12		G-7/11	P-8/9	9000	G-7
6BA11	D	55	14		G-4	P-2/3/6	2000**	G-4
"	D	68	14		G-9	P-1	1800**	G-9
6BB14	D	15	15	G-1/2/3/6/7/8	G-1/2	P-6/7/10	7500	G-1/2
6BC4	D	23	12	G-1/2/3/7/8/9	G-2/3/7/8	P-1/9	10,000	G-2/3/7/8
6BC5	D	13	8	G-2/7	G-1	P-5/6	5000	G-1
6BC7*	D	15	12		G-2	P-11		
"*	D	15	12		G-6	P-11		
"*	D	15	12		G-8	P-11		
6BC8	D	20	12		G-2	P-1	6200	G-2
"	D	20	12		G-7	P-6	6200	G-7
6BD4	D	60	4		G-13	P-5/10		G-5
6BD5	D	20	4		G-1/11	P-5/8	5000	G-1
6BD6	D	80	8		G-1	P-5/6	2500**	G-1
6BD7	D	100	12		G-2	P-1	900**	G-2
"*	D	44	12		G-13	P-6		
"*	D	44	12		G-13	P-8		
6BD11	D	20	14		G-1	P-2/10	10,400	G-1
"	D	38	14		G-3	P-4	4400	G-3
"	D	50	14		G-6	P-8	5500	G-6
6BE3*	D	25	14	G-4/10	G-4/10	P-11		
6BE6	D	25	8		G-1	P-5/6	7000	G-1
6BE7	D	40	12	G-3/8	G-7	P-1/6	1500**	G-7
6BF5	D	25	8	G-1/7	G-1/7/11	G-5/6	7500	G-1/7

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	GAS
6BF6	D	80	8		G-1	P-7	2000**	G-1
" *	D	90	8		G-5	P-11		
" *	D	90	8		G-6	P-11		
6BF8*	D	25	12		G-1	P-11		
" *	D	25	12		G-2	P-11		
" *	D	25	12		G-3	P-11		
" *	D	25	12		G-7	P-11		
" *	D	25	12		G-8	P-11		
" *	D	25	12		G-9	P-11		
6BF11	D	60	14		G-3	P-6/7	2000**	G-3
"	D	15	14		G-8	P-1/10	8000	G-8
6BG6	D	35	4		G-5/11	P-8/10	6000	G-5
6BH3*	D	30	16	G-2/7	G-2/7	P-11		
6BH6	D	83	8		G-1	P-5/6	3400**	G-1
6BH8	D	60	12		G-2	P-3	3300**	G-2
"	D	14	12		G-7	P-8/9	7000	G-7
6BH11	D	34	14		G-4	P-3	8500	G-4
"	D	34	14		G-6	P-7	8500	G-6
"	D	23	14		G-8	P-9/10	7500	G-8
6BJ3*	D	35	14	G-4/10	G-4/10	P-11		
6BJ6	D	80	8		G-1	P-5/6	3500**	G-1
6BJ7*	D	25	12		G-2	P-11		
" *	D	25	12		G-6	P-11		
" *	D	25	12		G-8	P-11		
6BJ8	D	90	12		G-8	P-7	4000**	G-8
" *	D	25	12		G-1	P-11		
" *	D	25	12		G-6	P-11		
6BK4	D	63	4	G-1/3/4/6/8	G-5/10	P-11		G-5
6BK5	D	20	12	G-3/7	G-3/7	P-1/8	8500	G-3/7
6BK6	D	100	8		G-1	P-7	1100**	G-1
" *	D	80	8		G-5	P-11		
" *	D	80	8		G-6	P-11		
6BK7	D	26	12		G-2	P-1	9000	G-2
"	D	26	12		G-7	P-6	9000	G-7
6BK8	D	48	12	G-2/7	G-9	P-1/6	7500	G-9
6BK11	D	90	14		G-1	P-2	600**	G-2
"	D	90	14		G-7	P-5	600**	G-7
"	D	90	14		G-9	P-10	600**	G-9
6BL4*	D	35	3	G-1/2/4/5/6	G-1/5	P-11		
6BL7	D	42	3		G-1/11	P-2	7000	G-1
"	D	42	3		G-4/11	P-5	7000	G-4
6BL8	D	18	12		G-2	P-3/6	6000	G-2
"	D	15	12		G-9	P-1	5000	G-9
6BM8	D	100	12		G-1	P-9	2000**	G-1
"	D	19	12		G-3/11	P-6/7	7500	G-3
6BN4	D	18	8	G-1/2/6/7	G-2/7	P-5	7000	G-2/7
6BN6	D	85	8		G-13	P-2/5/7		G-2
6BN8	D	90	12		G-8	P-7	2000**	G-8
" *	D	25	12		G-1	P-11		
" *	D	25	12		G-6	P-11		
6BN11	D	55	14		G-7	P-1/9	13,000	G-7
"	D	55	14		G-3	P-4/5	13,000	G-3
6BQ5	D	65	12	G-1/2/6/8	G-1/2/11	P-7/9	11,000	G-1/2
6BQ6	D	25	4		G-5/11	P-4/10	6000	G-5
6BQ7	D	20	12		G-2	P-1	6400	G-2
"	D	20	12		G-7	P-6	6400	G-7

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	G m — E m	NOTES	
						Rated Gm Micromhos	G A S
6BR5	D	0	12	G-3/6/8/9	P-3/6/7/8/9/13	OK if target glows	
6BR7	D	68	12	G-9	G-2 P-1	2000**	G-2
" *	D	25	12	G-9	G-6 P-11		
" *	D	25	12	G-9	G-7 P-11		
6BR8	D	28	12		G-1 P-2	8500	G-1
"	D	15	12		G-9 P-6/7	5200	G-9
6BS3*	D	23	16	G-2/7	G-2/7 P-11		
6BS8	D	22	12		G-2 P-1	7000	G-2
"	D	22	12		G-7 P-6	7000	G-7
6BT6	D	100	8		G-1 P-7	1100**	G-1
" *	D	75	8		G-5 P-11		
" *	D	75	8		G-6 P-11		
6BU6	D	68	8		G-1 P-7	1500**	G-1
" *	D	70	8		G-5 P-11		
" *	D	70	8		G-6 P-11		
6BU8	D	40	12		G-7 P-2/3	1500**	G-7
"	D	40	12		G-7 P-2/8	1500**	G-7
6BV8	D	18	12		G-2 P-3	5600	G-2
" *	D	25	12		G-6 P-11		
" *	D	25	12		G-9 P-11		
6BV11	D	72	14		G-7 P-9/10	3700**	G-7
"	D	72	14		G-6 P-3/4	3700**	G-6
6BW3*	D	24	14	G-4/10	G-4/10 P-11		
6BW4*	D	35	12		G-1 P-11		
" *	D	35	12		G-7 P-11		
6BW6	D	87	12	G-6	G-2 P-7/8	3700**	G-2
6BW8	D	20	12	G-7	G-6 P-8/9	5200	G-6
" *	D	25	12	G-7	G-1 P-11		
" *	D	25	12	G-7	G-3 P-11		
6BW11	D	28	14		G-1 P-8/9	8500	G-1
"	D	38	14		G-3 P-4/5	13,000	G-3
6BX6	D	12	12	G-1/3	G-2 P-7/8	5500	G-2
6BX7	D	18	3		G-1 P-2	7500	G-1
"	D	18	3		G-4 P-5	7500	G-4
6BX8	D	15	12		G-2 P-1	6700	G-2
"	D	15	12		G-7 P-6	6700	G-7
6BY5*	D	25	4		G-4 P-11		
" *	D	25	4		G-5 P-11		
6BY6	D	45	8		G-1 P-5/6	1900**	G-1
6BY7	D	14	12	G-1/3	G-2 P-7/8	7000	G-2
6BY8	D	95	12		G-1 P-7/8	4000**	G-1
" *	D	25	12		G-6 P-11		
6BY11	D	63	14		G-3 P-6/7	2500**	G-3
"	D	12	14		G-8 P-1/10	4900	G-8
6BZ3*	D	14	14	G-4/10	G-4/10 P-11		
6BZ6	D	21	8		G-1 P-5/6	8000	G-1
6BZ7	D	20	12		G-2 P-1	6800	G-2
"	D	20	12		G-7 P-6	6800	G-7
6BZ8	D	40	12		G-2 P-1	8000	G-2
"	D	40	12		G-7 P-6	8000	G-7
6C4	D	80	8	G-1/5	G-6 P-1/5	2200**	G-6
6C5	D	85	4		G-5 P-3	2000**	G-5
6C9	D	15	12		G-1 P-2/3	8000	G-1
"	D	15	12		G-7 P-8/9	8000	G-7

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	GAS
6C10	D	100	14		G-1	P-2	900**	G-1
"	D	100	14		G-7	P-5	900**	G-7
"	D	100	14		G-9	P-10	900**	G-9
6C16	D	18	12		G-2	P-3/6	6000	G-2
"	D	15	12		G-9	P-1	5000	G-9
6C18	D	17	12	G-6/8	G-9	P-1	5500	G-9
"	D	37	12	G-6/8	G-7	P-2/3	11,000	G-7
6CA4*	D	25	12	G-2/6/8	G-1	P-11		
" *	D	25	12	G-2/6/8	G-7	P-11		
6CA5	D	13	8	G-2/5	G-2/5	P-6/7	8000	G-2/5
6CA7	D	12	4		G-5/11	P-3/4	6000	G-5
6CA11	D	29	14		G-3	P-2/13	5500	G-3
"	D	30	14		G-6	P-4/13	6300	G-6
"	D	34	14		G-8	P-1/10	21,200	G-8
6CB5	D	37	4	All pins	G-4/5/11	P-1/8/10	8800	G-4/5
6CB6	D	15	8		G-1	P-5/6	6200	G-1
6CC31	D	26	8		G-6	P-1	5300	G-6
"	D	26	8		G-5	P-2	5300	G-5
6CC43	D	30	12		G-2	P-1	6000	G-2
"	D	30	12		G-7	P-6	6000	G-7
6CD3*	D	32	14	G-4/10	G-4/10	P-11		
6CD6	D	30	4		G-5/11	P-8/10	7500	G-5
6CD7	D	0	4			P-3/4/6/8/13	OK if target glows	
6CE3*	D	13	14	G-4/10	G-4/10	P-11		
6CE5	D	24	8	G-2/7	G-1	P-5/6	7600	G-1
6CF6	D	15	8		G-1	P-5/6	6200	G-1
6CF8	D	78	12	G-2/7	G-9	P-1/6	2000**	G-9
6CG3*	D	20	14	G-4/10	G-4/10	P-11		
6CG7	D	90	12		G-2	P-1	3000**	G-2
"	D	90	12		G-7	P-6	3000**	G-7
6CG8	D	22	12	G-3/8	G-1	P-2	5800	G-1
"	D	16	12	G-3/8	G-9	P-6/7	4600	G-9
6CH3*	D	16	16	G-2/7	G-2/7	P-11		
6CH6	D	80	12	G-1/9	G-2/11	P-7/8	7500	G-2
6CH7	D	15	12	G-8/9	G-2	P-1	6800	G-2
"	D	15	12	G-8/9	G-7	P-6	6800	G-7
6CH8	D	15	12		G-7	P-2/3	6200	G-7
"	D	75	12		G-8	P-9	3300**	G-8
6CJ3*	D	25	16	G-2/7	G-2/7	P-11		
6CJ6	D	47	12	G-1/6/7/8/9	G-2/11	P-7/8/10	2500**	G-2
6CK3*	D	17	16	G-2/7	G-2/7	P-11		
6CK4	D	15	4	G-1/3	G-1/3/11	P-5	5500	G-1/3
6CK6	D	13	12		G-2	P-1/7	7000	G-2
6CL3*	D	25	16	G-2/7	G-2/7	P-11		
6CL5	D	30	12	All pins	G-4/5	P-1/8/10	6500	G-4/5
6CL6	D	20	12	G-2/3/8/9	G-2/9	P-3/6/8	11,000	G-2/9
6CL8	D	30	12		G-1	P-2	8000	G-1
"	D	15	12		G-9	P-6/7	6000	G-9
6CM3	D	25	16	G-2/7	G-2/7	P-11		
6CM4	D	36	12	G-1/2/3/6/7/8/9	G-2/6/8	P-1/9	14,000	G-2/6/8
6CM5	D	53	4	G-1/3/4/8	G-5	P-1/4/10		G-5
6CM6	D	90	12	G-3/6	G-3/6	P-1/9	3900**	G-3/6
6CM7	D	80	12		G-7	P-6	2000**	G-7
"	D	80	12		G-8	P-1	4400**	G-8

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	GAS
6CM8	D	18	12		G-2	P-6/7	6200	G-2
	D	100	12		G-9	P-1	1000**	G-9
6CN6	D	35	4		G-4/5/10	P-11		G-5
6CN7	D	100	12	G-9	G-7	P-8	1000**	G-7
" *	D	25	12	G-9	G-1	P-11		
" *	D	25	12	G-9	G-2	P-11		
6CQ4*	D	25	3		G-5	P-11		
6CQ8	D	18	12		G-2	P-3/6	5800	G-2
	D	29	12		G-9	P-1	8000	G-9
6CR6	D	65	8		G-7	P-5/6	1950**	G-7
" *	D	75	8		G-2	P-11		
6CR8	D	17	12		G-2	P-6/7	7700	G-2
	D	15	12		G-9	P-1	4000	G-9
6CS6	D	20	8		G-1	P-5/6	1100**	G-1
6CS7	D	15	12		G-3	P-1	4500	G-3
"	D	85	12		G-7	P-6	2200**	G-7
6CT3*	D	25	12	G-2/6	G-2/6	P-11		
6CU5	D	28	8	G-2/5	G-2/5/11	P-6/7	7500	G-2/5
6CU6	D	20	4		G-5/11	P-4/10	5900	G-5
6CU8	D	15	12	G-1	G-7	P-2/3	6000	G-7
	D	75	12	G-1	G-8	P-9	3300**	G-8
6CW4	D	42	1		G-4	P-2	9000	G-4
6CW5	D	30	12	G-1/2/6/7/8/9	G-1/2/11	P-6/7/8/9	10,000	G-1/2
				9				
6CX8	D	24	12		G-2	P-3	4600	G-2
"	D	30	12		G-7	P-8/9	10,000	G-7
6CY5	D	17	8	G-2/7	G-1	P-5/6	8000	G-1
6CY7	D	100	12	G-2/3	G-7	P-6	1000**	G-7
"	D	13	12	G-2/3	G-2/3	P-1	5000	G-2/3
6CZ5	D	23	12	G-3/6	G-3/6/11	P-1/9	4500	G-3/6
6D1	D	95	8	G-1/5	G-6	P-1/5	800**	G-6
6D2*	D	25	8		G-2	P-11		
" *	D	25	8		G-7	P-11		
6D4	D	75	8		G-1/7	P-11		
6D10	D	18	14		G-7	P-5	4200	G-7
"	D	18	14		G-9	P-10	4200	G-9
"	D	18	14		G-1	P-2	4200	G-1
6DA4*	D	25	3		G-5	P-11		
6DA5	D	0	12	G-3/6/8/9	P-3/6/7/8/9/13		OK if target glows	
6DA6	D	60	12	G-1/6	G-2	P-7/8	3500**	G-2
6DB5	D	32	12	G-2/3/6/7/8	G-3/6/11	P-1/9	8000	G-3/6
6DB6	D	50	8		G-1	P-5/6	2000**	G-1
6DC6	D	13	8		G-1	P-5/6	5500	G-1
6DC8	D	72	12		G-2	P-1/6	4000**	G-2
" *	D	50	12		G-7	P-11		
" *	D	50	12		G-8	P-11		
6DE4*	D	25	3		G-5	P-11		
6DE6	D	25	8		G-1	P-5/6	8000	G-1
6DE7	D	10	12	G-2/3	G-2/3	P-1	6500	G-2/3
"	D	75	12	G-2/3	G-7	P-6	2000**	G-7
6DG6	D	28	4		G-5/11	P-3/4	8000	G-5
6DJ8	D	19	12		G-2	P-1	12,500	G-2
"	D	19	12		G-7	P-6	12,500	G-7
6DK3	D	50	16	G-2/7	G-2/7	P-11		
6DK6	D	22	8		G-1	P-5/6	9800	G-1
6DL3*	D	20	16	G-2/7	G-2/7	P-11		

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	G _m – E _m	NOTES	
						Rated G _m Micromhos	G A S
6DL4	D	47	12	G-1/3/6/7/9	G-1/3/6/7/9 P-8	13,000	G-1/3/6/7/9
6DL5	D	13	8	G-1/7	G-1/7 P-5/6	5000	G-1/7
6DM4*	D	25	3		G-5 P-11		
6DN3*	D	25	16	G-2/7	G-2/7 P-11		
6DN6	D	38	4		G-5/11 P-8/10	9000	G-5
6DN7	D	20	3		G-1 P-2	7500	G-1
"	D	90	3		G-4 P-5	2500**	G-4
6DQ3	D	39	14	G-4/10	G-4/10 P-11		
6DQ4*	D	25	3		G-5 P-11		
6DQ5	D	55	4	All pins	G-1/5/11 P-4/8/10	10,000	G-1/5
6DQ6	D	20	4		G-5/11 P-4/10	6000	G-5
6DR4	D	95	8	G-1/5	G-6 P-1/5	800**	G-6
6DR7	D	15	12	G-2/3	G-2/3 P-1	6000	G-2/3
"	D	85	12	G-2/3	G-7 P-6	1000**	G-7
6DS4	D	50	1		G-4 P-2	9000	G-4
6DS5	D	30	8	G-1/7	G-1/7/11 P-5/6	6000	G-1/7
6DS8	D	75	12		G-9 P-8	2200**	G-9
"	D	20	12		G-2 P-1/6	5000	G-2
6DT3*	D	20	14	G-4/10	G-4/10 P-11		
6DT4*	D	30	3	G-1/5	G-1/5 P-11		
6DT5	D	21	12	G-3/6	G-3/6/11 P-1/9	6200	G-3/6
6DT6	D	25	8		G-1 P-5/6	1000**	G-1
6DT8	D	25	12		G-2 P-1	4500	G-2
"	D	25	12		G-7 P-6	4500	G-7
6DU3	D	39	14	G-4/10	G-4/10 P-11		
6DV4	D	20	2	G-1/2/4/6	G-4/6 P-1/2	11,500	G-4/6
6DW4*	D	25	16	G-2/7	G-2/7 P-11		
6DW5	D	40	12	G-3/6	G-1/3/6/9 P-11		G-3/6
6DX8	D	27	12		G-8 P-6/9	10,000	G-8
"	D	70	12		G-1 P-2	4000	G-1
6DY5	D	25	12		G-2/11 P-7/9	9000	G-2
6DZ4	D	30	8	G-1/2/6/7	G-2/6/11 P-1/7	6500	G-2/6
6DZ7	D	27	4		G-1 P-3/4	9000	G-1
"	D	27	4		G-5 P-4/6	9000	G-5
6DZ8	D	95	12		G-1 P-9	1400**	G-1
"	D	17	12		G-3 P-6/7	7500	G-3
6E8	D	55	4		G-5/10 P-3/4/6	1150**	G-5
6EA4	D	70	14	G-1/2/5/9	G-6/10 P-11		G-6
6EA5	D	40	8	G-2/7	G-1 P-5/6	8000	G-1
6EA7	D	90	3		G-4 P-5	1500**	G-4
"	D	20	3		G-1/11 P-2	6500	G-1
6EA8	D	18	12		G-2 P-3/6	6400	G-2
"	D	25	12		G-9 P-1	8000	G-9
6EB5*	D	35	8		G-2 P-11		
" *	D	35	8		G-7 P-11		
6EB8	D	100	12		G-2 P-3	1200**	G-2
"	D	28	12		G-7 P-8/9	12,500	G-7
6EC4*	D	38	15	G-2/7/8	G-2/7/8 P-11		
6ED4	D	50	15	G-1/2/3/6/7/9	G-8/10 P-11		G-8
6EF4	D	10	14	G-2/9	G-6 P-10/11	1000**	G-6
6EG6	D	25	8		G-1 P-5/6	1400**	G-1
6EH4	D	75	14	G-1/2/5/9	G-6/10 P-11		
6EH5	D	20	8	G-2/5	G-2/5 P-6/7	14,600	G-2/5
6EH7	D	15	12	G-1/3	G-2 P-7/8	12,500	G-2

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m — E m		NOTES	
							Rated Gm Micromhos	G A S
6EH8	D	25	12	G-1/6	G-2	P-3	7500	G-2
	D	18	12	G-1/6	G-7	P-8/9	6000	G-7
6EJ4	D	13	14	G-1/2/9	G-6	P-10/11	1000**	G-6
6EJ7	D	25	12	G-1/3	G-2	P-7/8	15,000	G-2
6EL4*	D	50	4	G-1/3/4/6/8	G-5/10	P-11		
6EM5	D	20	12	G-3/6	G-3/6/11	P-1/9	5000	G-3/6
6EM7	D	17	3		G-1	P-2	7200	G-1
	D	90	3		G-4	P-5	1000**	G-4
6EN4	D	63	4	G-1/3/4/5/6/8	G-5/6/10	P-11		
6EQ7	D	90	12		G-2	P-6/7	3800**	G-2
" *	D	80	12		G-8	P-11		
6ER5	D	50	8	G-1/7	G-2	P-5/6	9000	G-2
6ES5	D	60	8	G-1/7	G-2	P-5	9000	G-2
6ES6	D	30	8		G-1	P-5/6	2000**	G-1
6ES8	D	90	12		G-2/11	P-1	8000	G-2
"	D	90	12		G-7/11	P-6	8000	G-7
6ET6	D	30	8		G-1	P-5/6	2000**	G-1
6ET7	D	80	12		G-7/11	P-8/9	10,000	G-7
" *	D	90	12		G-2	P-11		
" *	D	90	12		G-3	P-11		
6EU7	D	100	10		G-5	P-6	1000**	G-5
"	D	100	10		G-8	P-7	1000**	G-8
6EU8	D	25	12		G-2	P-3	8000	G-2
"	D	16	12		G-7	P-1/9	6000	G-7
6EV5	D	18	8	G-2/7	G-1	P-5/6	8800	G-1
6EV7	D	33	12		G-2	P-1	5200	G-2
"	D	33	12		G-7	P-6	5200	G-7
6EW6	D	35	8		G-1	P-5/6	11,000	G-1
6EW7	D	20	12	G-2/3	G-2/3/11	P-1	7500	G-2/3
"	D	80	12	G-2/3	G-7	P-6	2000**	G-7
6EW8	D	25	12		G-2	P-1	5800	G-2
"	D	25	12		G-7	P-6	5800	G-7
6EX6	D	25	4		G-5/11	P-8/10	7700	G-5
6EY6	D	17	4		G-5/11	P-3/4	4400	G-5
6EZ5	D	80	4		G-5	P-3/4	4100**	G-5
6EZ8	D	30	12		G-2	P-3	4200	G-2
"	D	40	12		G-6/7/12	P-11		G-7
"	D	40	12		G-8/9/12	P-11		G-9
6F5	D	100	4		G-10	P-4	1000**	G-10
6F6	D	95	4		G-5/11	P-3/4	2500**	G-5
6F8	D	90	4		G-5	P-6	3000**	G-5
"	D	90	4		G-10	P-3	3000**	G-10
6F12	D	27	8		G-1	P-5/7	7600	G-1
6F19	D	14	12	G-1/3	G-2	P-7/8	7000	G-2
6F22	D	78	12	G-2/7	G-9	P-1/6	2000**	G-9
6F26	D	14	12	G-1/3	G-2	P-7/8	7000	G-2
6F29	D	15	12	G-1/3	G-2	P-7/8	12,500	G-2
6F30	D	25	12	G-1/3	G-2	P-7/8	15,000	G-2
6F33	D	65	8		G-1	P-5/6	3200**	G-1
6F35	D	32	8	G-2/7	G-1	P-5/6	2500**	G-1
6FA7	D	92	12		G-7	P-1/8/9	3000**	G-7
" *	D	85	12		G-3	P-11		
6FD7	D	20	12	G-2/3	G-2/3	P-1	7500	G-2/3
"	D	90	12	G-2/3	G-7	P-6	1000**	G-7
6FD10	D	35	14		G-2	P-6		G-2
6FE5	D	33	4		G-5/11	P-3/4	9500	G-5

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	Gm — Em	NOTES	
						Rated Gm Micromhos	GAS
6FG5	D	80	8	G-2/7	G-1 P-5/6	5000	G-1
6FG6	D	0	12	G-2/6/8	P-2/6/7/8/9/13	OK if target glows	
6FG7	D	30	12	G-3/8	G-1 P-2	7500	G-1
"	D	18	12	G-3/8	G-9 P-6/7	6000	G-9
6FH5	D	40	8	G-1/7	G-2 P-5	9000	G-2
6FH6	D	25	4		G-5/11 P-4/10	6000	G-5
6FH8	D	20	12		G-2/12 P-3	5400	G-2
"	D	14	12		G-6/12 P-1/7/8/9	4400	G-6
6FJ7	D	16	14		G-3 P-5	7700	G-3
"	D	80	14		G-10 P-1	2500**	G-10
6FM7	D	23	14	G-3/8	G-3/8/11 P-5	6000	G-3/8
"	D	100	14	G-3/8	G-10 P-1	1500**	G-10
6FM8	D	100	12		G-8 P-9	1000**	G-8
" *	D	25	12		G-2 P-11		
" *	D	25	12		G-6 P-11		
6FQ5	D	40	8	G-1/7	G-2 P-5	11,000	G-2
6FQ7	D	90	12		G-2 P-1	2600**	G-2
"	D	90	12		G-7 P-6	2600**	G-7
6FR7	D	44	12	G-2/3	G-2/3 P-1	7200	G-2/3
"	D	90	12	G-2/3	G-7 P-6	1600**	G-7
6FS5	D	37	8	G-2/7	G-1 P-5/6	4000	G-1
6FV6	D	17	8		G-1 P-5/6	8000	G-1
6FV8	D	30	12		G-1 P-2	8000	G-1
"	D	17	12		G-9 P-6/7	6500	G-9
6FW5	D	28	4		G-1/11 P-5/8	7500	G-1
6FW8	D	16	12		G-2 P-1	13,000	G-2
"	D	16	12		G-7 P-6	13,000	G-7
6FY5	D	45	8	G-1/7	G-2 P-5	13,000	G-2
6FY7	D	25	14		G-3/11 P-5	7500	G-3
"	D	90	14		G-10 P-1	1000**	G-10
6G6	D	80	4		G-5/11 P-3/4	2100**	G-5
6G11	D	27	14		G-3 P-6/7	1000**	G-3
"	D	23	14		G-8 P-1/10	7500	G-8
6GB3	D	20	4		G-5/11 P-4/10	7100	G-5
6GB5	D	16	15	G-1/2/3/6/7/8	G-1/2/11 P-6/7/10	6000	G-1/2
6GB6	D	25	4		G-5/11 P-4/10	6000	G-5
6GB7	D	20	4		G-5/11 P-4/10	6000	G-5
6GB9	D	20	4		G-5/11 P-4/10	6000	G-5
6GC5	D	35	12	G-1/3/6/8	G-3/6/11 P-1/8/9	8000	G-3/6
6GC6	D	25	4	G-4/8	G-5/11 P-4/8/10	6600	G-5
6GE5	D	19	14	G-1/3/4/10	G-1/3/11 P-2/7	6600	G-1/3
6GE8	D	12	12		G-3 P-6	5000	G-3
"	D	70	12		G-8 P-1/9	3200**	G-8
6GF5	D	35	14	G-1/3/4/10	G-1/3/11 P-2/7	7000	G-1/3
6GF7	D	18	16		G-2/11 P-6	7200	G-2
"	D	90	16		G-9 P-8	1000**	G-9
6GH8	D	27	12		G-2 P-3/6	7500	G-2
"	D	27	12		G-9 P-1	8500	G-9
6GJ5	D	25	16	G-1/2/6/7	G-2/6 P-1/7/10	7100	G-2/6
6GJ7	D	15	12	G-1/3	G-9 P-8	9000	G-9
"	D	18	12	G-1/3	G-2 P-6/7	10,500	G-2
6GK5	D	18	8	G-1/7	G-2 P-5/11/13	15,000	G-2
6GK6	D	18	12	G-3/9	G-2 P-7/8	11,300	G-2
6GK17*	D	25	3		G-5 P-11		
6GL7	D	20	3		G-1/11 P-2	6400	G-1
"	D	100	3		G-4 P-5	1500**	G-4

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m — Em		NOTES	
							Rated Gm Micromhos	G A S
6GM5	D	40	12		G-6/11	P-1/9	10,000	G-6
6GM6	D	33	8		G-1	P-5/6	13,000	G-1
6GM8	D	65	12		G-2/11	P-1	2600**	G-2
"	D	65	12		G-7/11	P-6	2600**	G-7
6GN6	D	35	8		G-1	P-5/6	4300**	G-1
" *	D	25	8		G-7	P-11		
6GN8	D	95	12		G-2	P-3	1000**	G-2
"	D	15	12		G-7	P-8/9	11,500	G-7
6GQ7*	D	25	12		G-2	P-11		
" *	D	25	12		G-6	P-11		
" *	D	25	12		G-8	P-11		
6GS7	D	18	12	G-3/8	G-1	P-2	5500	G-1
"	D	45	12	G-3/8	G-9	P-6/7	12,000	G-9
6GS8	D	40	12		G-7	P-2/3	1500**	G-7
"	D	40	12		G-7	P-2/8	1500**	G-7
6GT5	D	34	16	G-1/2/6/7	G-2/6/11	P-1/7/9	7000	G-2/6
6GU5	D	75	8	G-2/7	G-1	P-5/6	8000	G-1
6GU7	D	65	12		G-2	P-1	3000**	G-2
"	D	65	12		G-7	P-6	3000**	G-7
6GV5	D	20	14	G-1/3/4/5/7/ 9/10	G-5/9/11	P-1/3/7	5000	G-5/9
6GV7	D	17	12	G-6/8	G-9	P-1	5500	G-9
"	D	37	12	G-6/8	G-7	P-2/3	11,000	G-7
6GV8	D	34	12		G-2	P-1	6500	G-2
"	D	20	12		G-9/11	P-6/7	7000	G-9
6GW5	D	46	8	G-2/6	G-2/6	P-1	15,000	G-2/6
6GW6	D	20	4		G-5/11	P-4/10	7100	G-5
6GW8	D	100	12		G-1	P-9	600**	G-1
"	D	20	12		G-8	P-3/6	10,000	G-8
6GX6	D	58	8		G-1	P-5/6	3700**	G-1
6GX7	D	27	12	G-1/3	G-9	P-8	8500	G-9
"	D	31	12	G-1/3	G-2	P-6/7	11,000	G-2
6GX8	D	30	12		G-1/8	P-11		
"	D	0	12			P-6/7/13	OK if target glows	
6GY5	D	20	14	G-1/3/4/5/7/ 9/10	G-5/9/11	P-1/3/7	6500	G-5/9
6GY6	D	17	8		G-1/13	P-5/6/11	3700**	G-1
6GY8	D	20	12		G-1/12	P-2	4500	G-1
"	D	20	12		G-3	P-9	4500	G-3
"	D	70	12		G-13	P-6		
6H6*	D	35	4		G-3	P-11		
" *	D	35	4		G-5	P-11		
6HA5	D	60	8	G-2/7	G-1	P-5	14,000	G-1
6HA6	D	30	12	G-3/6/8/9	G-2	P-6/7/8	20,000	G-2
6HB5	D	23	14	G-1/3/4/10	G-1/3/11	P-2/7	9100	G-1/3
6HB6	D	28	12	G-3/6/8/9	G-2	P-6/7/8	20,000	G-2
6HB7	D	20	12	G-1/3	G-2	P-6/7	6400	G-2
"	D	25	12	G-1/3	G-9	P-8	8500	G-9
6HD5	D	32	14	G-1/3/4/5/9/ 10	G-1/3/11	P-5/7/9	10,000	G-1/3
6HD7	D	29	12	G-1/3	G-9	P-8	8200	G-9
"	D	50	12	G-1/3	G-2	P-6/7		G-2
6HE5	D	92	14	G-1/2/3/4/9/ 10	G-2/9/11	P-3/6/10	4000**	G-2/9
6HE7*	D	12	14	G-10	G-2	P-11		
"	D	20	14	G-10	G-9	P-1/5	8800	G-9

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	GAS
6HF5	D	30	14	G-1/3/4/5/6/ 8/9/10	G-5/9/11	P-1/3/6/8	7000	G-5/9
6HF8	D	100	12		G-2	P-3	2000**	G-2
"	D	15	12		G-7	P-8/9	12,500	G-7
6HG5	D	98	8	G-1/7	G-1/7/11	P-5/6	4100**	G-1/7
6HG8	D	15	12	G-1/3	G-6	P-7	7000	G-6
"	D	23	12	G-1/3	G-2	P-8/9	10,000	G-2
6HJ5	D	30	14	G-1/3/4/5/9/ 10	G-1/3/11	P-5/7/9	10,000	G-1/3
6HJ7	D	24	12	G-1/3	G-9	P-8	6000	G-9
"	D	25	12	G-1/3	G-2	P-6/7	8800	G-2
6HJ8	D	60	12		G-2	P-3/6	4200**	G-2
" *	D	25	12		G-8	P-11		
6HK5	D	55	8	G-2/7	G-1	P-5	15,000	G-1
6HK8	D	20	12		G-7	P-6	6400	G-7
"	D	20	12		G-2	P-1	6400	G-2
6HL5	D	42	12	G-1/2	G-1/2/11	P-7/9	17,000	G-1/2
6HL8	D	29	12		G-2	P-3/6	10,000	G-2
"	D	37	12		G-9	P-1	7000	G-9
6HM5	D	60	8	G-2/7	G-1	P-5	14,000	G-1
6HM6	D	30	12	G-1/3	G-2	P-7/8	15,000	G-2
6HQ5	D	47	8	G-2/7	G-1	P-5	15,000	G-1
6HR5	D	90	8	G-1/7	G-1/7	P-5/6	3700**	G-1/7
6HR6	D	25	8		G-1	P-5/6	8500	G-1
6HS5	D	100	14	G-1/2/3/10	G-1/2	P-3/7/10	800**	G-1/2
6HS6	D	29	8		G-1	P-5/6	9500	G-1
6HS8	D	20	12		G-7	P-2/3/8	1100**	G-7
6HT5	D	25	14	G-1/2/4/7/9	G-6	P-10/11	2000**	G-6
6HT6	D	25	12	G-1/3	G-2	P-7/8	14,000	G-2
6HU6	D	0	12	G-2/6/8	P-2/6/7/8/9/13 OK if target glows			
6HU8	D	56	12		G-2/11	P-1/3	9000	G-2
"	D	56	12		G-6/11	P-8/9	9000	G-6
6HV5	D	100	14	G-1/2/3/10	G-1/2	P-3/7/10	800**	G-1/2
6HW8	D	30	12		G-6	P-2/3	4000	G-6
"	D	30	12		G-6	P-3/8	4000	G-6
6HZ5	D	100	14	G-1/2/3/10	G-1/2	P-3/7/10	800**	G-1/2
6HZ6	D	58	8		G-1	P-5/6	3400**	G-1
6HZ8	D	40	12		G-2	P-3	4000	G-2
"	D	22	12		G-7	P-8/9	12,500	G-7
6J4	D	35	8	G-1/5/6	G-1/5/6	P-7	11,000	G-1/5/6
6J5	D	90	4		G-5	P-3	3000**	G-5
6J6	D	26	8		G-6	P-1	5300	G-6
"	D	26	8		G-5	P-2	5300	G-5
6J7	D	70	4		G-10	P-3/4	1200**	G-10
6J8	D	25	4		G-10	P-3/4	1000**	G-10
"	D	77	4		G-5	P-6	1600**	G-5
6J9	D	63	12		G-2	P-1	11,000	G-2
"	D	70	12		G-9	P-6	11,000	G-9
"	D	70	12		G-7	P-8	11,000	G-7
6J10	D	54	14		G-1/11	P-2/9	6500	G-1
"	D	60	14		P-4/5/6/7/13			
6J11	D	45	14		G-5	P-2/3	13,000	G-5
"	D	45	14		G-1	P-7/9	13,000	G-1
6JA5	D	30	14	G-1/2/3/4/9/ 10	G-2/9	P-3/6/10	10,500	G-2/9

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m — Em		NOTES	
							Rated Gm Micromhos	G A S
6JA8	D	87	12		G-2	P-3	2600**	G-2
"	D	24	12		G-7	P-8/9	12,600	G-7
6JB5	D	92	14	G-1/2/3/4/9/ 10	G-2/9/11	P-3/6/10	4000**	G-2/9
6JB6	D	20	16	G-1/2/6/7	G-2/6/11	P-1/7/10	7100	G-2/6
6JC5	D	90	14	G-1/2/3/4/9/ 10	G-2/9/11	P-3/6/10	4000**	G-2/9
6JC6	D	35	12	G-1/3	G-2	P-7/8	15,000	G-2
6JC8	D	15	12	G-1/7	G-8	P-9	6500	G-8
"	D	18	12	G-1/7	G-2	P-3/6	5500	G-2
6JD5	D	100	14	G-1/2/3/10	G-1/2	P-3/7/10	800**	G-1/2
6JD6	D	30	12	G-1/3	G-2	P-7/8	14,000	G-2
6JE6	D	50	16	G-1/2/6/7	G-2/6/11	P-1/7/10	10,500	G-2/6
6JE8	D	40	12		G-2	P-3	4200	G-2
"	D	25	12		G-7	P-8/9	12,000	G-7
6JF6	D	30	16	G-1/2/6/7	G-2/6/11	P-1/7/10	10,000	G-2/6
6JG5	D	15	12		G-7	P-8/9	11,500	G-7
6JG6	D	20	16	G-1/7	G-2	P-1/7/9	10,000	G-7
6JH5	D	20	14	G-1/2/3/7/8/	G-1/2	P-3/7/8/10/11/13	15,000	G-1/2
6JH6	D	26	8		G-1	P-5/6	8000	G-1
6JH8	D	18	12		G-6	P-3/8/9	4400	G-6
6JK5	D	20	14	G-1/2/3/7/8/10	G-1/2	P-3/7/8/10/11/13		
6JK6	D	31	8		G-1	P-5/6	18,000	G-1
6JK8	D	26	12		G-7	P-6	6800	G-7
"	D	45	12		G-2	P-1	13,000	G-2
6JL6	D	20	8		G-1	P-5/6	15,500	G-1
6JM6	D	32	14	G-4/10	G-5/11	P-3	7300	G-5
6JN6	D	24	14	G-4/10	G-1/11	P-3/7	7300	G-1
6JN8	D	27	12		G-1	P-2	8500	G-1
"	D	24	12		G-9	P-6/7	7500	G-9
6JQ6	D	70	12	G-2/3/7/8	G-7/8	P-1/2/3	4200**	G-7/8
" *	D	60	12	G-2/3/7/8	G-6	P-11		
6JR6	D	24	16	G-1/7	G-2	P-1/7/9	10,000	G-2
6JS6	D	66	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	11,300	G-5/9
6JT6	D	25	16	G-1/7	G-2	P-1/7/9	7100	G-2
6JT8	D	100	12		G-2	P-3	850**	G-2
"	D	25	12		G-7	P-8/9	20,000	G-7
6JU6	D	18	16	G-1/2/6/7	G-2/6/11	P-1/7/10	7000	G-2/6
6JU8*	D	30	12	G-2/8	G-1	P-11		
" *	D	30	12	G-2/8	G-1/2	P-11		
" *	D	30	12	G-2/8	G-7	P-11		
" *	D	30	12	G-2/8	G-7/8	P-11		
6JV8	D	75	12		G-2	P-3	2000**	G-2
"	D	22	12		G-7	P-8/9	11,000	G-7
6JW8	D	90	12		G-9	P-1	2000**	G-9
"	D	27	12		G-2	P-3/6	5500	G-2
6JX8	D	80	12		G-9	P-8	2000	G-9
"	D	50	12		G-2	P-6/7	2200**	G-2
6JY8	D	22	12		G-2	P-3	10,400	G-2
"	D	11	12		G-7	P-9/11	11,000	G-7
6JZ6	D	33	14	G-4/10	G-5/11	P-1/3	9000	G-5
6JZ8	D	30	14	G-6/7	G-6/7/11	P-4/8	7000	G-6/7
"	D	70	14	G-6/7	G-10	P-2	1900**	G-10
6K6	D	80	4		G-5	P-3/4	2300**	G-5
6K7	D	78	4		G-10	P-3/4	1650**	G-10
6K8	D	50	4		G-5	P-3/4	1200**	G-5

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m — Em		NOTES	
							Rated Gm Micromhos	G A S
6K11	D	95	14		G-1	P-2	1000**	G-1
"	D	95	14		G-7	P-5	1000**	G-7
"	D	70	14		G-9	P-10	2200**	G-9
6KA8	D	38	12		G-2	P-1	4000	G-2
"	D	27	12		G-6	P-8/9	4400	G-6
6KD6	D	70	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	14,000	G-5/9
6KD8	D	17	12		G-2	P-3/6	5000	G-2
"	D	32	12		G-9	P-1	7500	G-9
6KE8	D	40	12		G-9	P-1	8000	G-9
"	D	54	12		G-2	P-3/6	12,000	G-2
6KF8	D	66	12		G-7	P-2/3	2000**	G-7
"	D	66	12		G-7	P-2/8	2500**	G-7
6KG6	D	56	15	G-1/2/3/6/7/8	G-1/8	P-3/6/10		G-1/8
6KL8	D	87	12		G-2	P-6/7	4000**	G-2
" *	D	30	12		G-13	P-8		
6KM6	D	31	16	G-1/2/6/7	G-2/6/11	P-1/7/10	9500	G-2/6
6KM8	D	100	12		G-7	P-1/2/8/9	4000**	G-7
" *	D	35	12		G-13	P-3		
6KN6	D	50	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3/4/10	16,000	G-5/9
6KN8	D	30	12		G-7	P-6	16,000	G-7
"	D	30	12		G-2	P-1	16,000	G-2
6KR8	D	37	12		G-2	P-3	10,400	G-2
"	D	55	12		G-7	P-8/9	20,000	G-7
6KS6	D	85	8		G-13	P-2/5/7		G-2
6KT6	D	37	12	G-1/3	G-2	P-7/8	18,000	G-2
6KT8	D	97	12		G-2	P-3	2500**	G-2
"	D	24	12		G-7	P-8/9	10,000	G-7
6KU8	D	23	12		G-7	P-8/9	20,000	G-7
" *	D	32	12		G-2	P-11		
" *	D	32	12		G-3	P-11		
6KV6	D	25	16	G-1/7	G-2	P-1/7/9	9500	G-2
6KV8	D	42	12		G-2	P-3	1000**	G-2
"	D	42	12		G-7	P-8/9	23,000	G-7
6KX8	D	48	12		G-1/3	P-11		G-1
"	D	48	12		G-7/9	P-11		G-9
6KY6	D	26	12	G-3/9	G-2	P-7/8	20,000	G-2
6KY8	D	35	16		G-2/11	P-6/7	8400	G-2
"	D	100	16		G-9	P-8	1000**	G-9
6KZ8	D	26	12		G-2	P-6/7	7500	G-2
"	D	37	12		G-9	P-1	8500	G-9
6L5	D	65	4		G-5	P-3	1500**	G-5
6L6	D	35	4		G-3/4/5	P-11		G-5
6L7	D	45	4		G-10	P-3/4	1100**	G-10
6L34	D	34	8	G-1/2/5/6	G-1/6	P-11		G-1/6
6LB6	D	60	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	13,400	G-5/9
6LB8	D	20	12		G-2	P-3	5000	G-2
"	D	30	12		G-7	P-8/9	20,000	G-7
6LC6	D	60	4	G-1/3/4	G-5/10	P-11		G-5
6LC8	D	95	12	G-3	G-2	P-1	3400**	G-2
"	D	62	12	G-3	G-2	P-8/9	4400**	G-6
6LD6	D	21	12	G-3/6/8/9	G-2	P-6/7/8	20,000	G-2
6LE8	D	6	12		G-9	P-6/8	5800	G-9
"	D	5	12		G-9	P-1/8	5800	G-9
6LF6	D	70	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	3300**	G-5/9
6LF8	D	95	12		G-2	P-3	1500**	G-2
"	D	25	12		G-7	P-8/9	11,000	G-7

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m — E m		NOTES	
							Rated Gm Micromhos	G A S
6LG6	D	26	14	G-1/3/4/5/9/10	G-5/9	P-1/3/13	6500	G-5/9
6LH6	D	60	4	G-1/3/4	G-5/10	P-11		G-5
6LJ6	D	50	4	G-1/3/4/8	G-5	P-10/11/13		
6LJ8	D	28	12	G-3/8	G-1	P-2	8000	G-1
"	D	38	12	G-3/8	G-9	P-6/7	13,000	G-9
6LM8	D	20	12		G-2	P-3/6	6000	G-2
"	D	45	12		G-9	P-1	8500	G-9
6LN8	D	18	12		G-2	P-3/6	6000	G-2
"	D	15	12		G-9	P-1	5000	G-9
6LQ6	D	60	16	G-1/2/6/7	G-2/6/11	P-1/7/10	10,500	G-2/6
6LQ8	D	32	12		G-2	P-3	10,400	G-2
"	D	40	12		G-7	P-8/9	21,000	G-7
6LR6	D	67	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	16,000	G-5/9
6LR8	D	30	16		G-2/11	P-6/7	9300	G-2
"	D	84	16		G-9	P-8	3600**	G-9
6LT8	D	32	12	G-1 when tube	G-9	P-2/3	13,000	G-2
" *	D	23	12	is heated	G-6	P-11		
" *	D	23	12		G-8	P-11		
6LU6	D	16	8		G-1	P-5/6	8000	G-1
6LU8	D	30	14	G-6/7	G-6/7/11	P-4/8	9300	G-6/7
"	D	85	14	G-6/7	G-10	P-2	3600**	G-10
6LV6	D	70	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	3300**	G-5/9
6LW6	D	40	4	G-1/5/6/8	G-1/5/11	P-3/10	12,000	G-1/5
6LX6	D	41	14	G-1/3/4/5/7/9/10	G-5/9/11	P-1/3	11,300	G-5/9
6LX8	D	100	12		G-9	P-1	2500**	G-9
"	D	17	12		G-2	P-3/6	5500	G-2
6LY8	D	95	12		G-2	P-3	5000	G-2
"	D	62	12		G-7/13	P-8/9	20,000	G-7
6LZ6	D	35	16	G-1/2/6/7	G-2/6/11	P-1/7/9	7000	G-2/6
6M3*	D	20	6	G-1/3/5/7	G-3/5/7	P-11		
6M11	D	45	14		G-2	P-1/3	13,000	G-2
"	D	40	14		G-5	P-6	7000	G-5
"	D	40	14		G-8	P-7	7000	G-8
6MB6	D	63	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	14,000	G-5/9
6MB8	D	40	12		G-1	P-2	8000	G-1
"	D	48	12		G-9	P-6/7	12,000	G-9
6MC6	D	63	16	G-1/2/6/7	G-2/6/11	P-1/7/10	14,000	G-2/6
6MD8	D	69	16		G-6	P-3	3100**	G-6
"	D	69	16		G-8	P-2	3100**	G-8
"	D	69	16		G-9	P-1	3100**	G-9
6ME6	D	28	16	G-1/2/6/7	G-2/6/11	P-1/7/10	9600	G-2/6
6ME8	D	20	12		G-6	P-3/8/9	4400	G-6
6MF8	D	95	14	G-6/7	G-6/7/11	P-4/8	4100**	G-6/7
"	D	92	14	G-6/7	G-10	P-2	4100**	G-10
6MG8	D	40	12		G-9	P-1	8500	G-9
"	D	23	12		G-2	P-3/6	6200	G-2
6MH1	D	35	8	G-1/5/6	G-1/5/6	P-7	11,000	G-1/5/6
6MH6	D	70	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	3300**	G-5/9
6MHH3	D	26	8		G-6	P-1	5300	G-6
"	D	26	8		G-5	P-2	5300	G-6
6MJ8	D	70	14		G-8	P-6	3000**	G-8
"	D	70	14		G-10	P-4	3000**	G-10
"	D	70	14		G-1	P-2	3000**	G-1
6MK8	D	50	12		G-7	P-2/3	1600**	G-7
"	D	50	12		G-7	P-2/8	1600**	G-7
6ML4	D	15	8	G-1/2/6/7	G-2/6	P-1/7	6000	G-2/6

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	G m — E m	NOTES	
						Rated Gm Micromhos	G A S
6ML8	D	26	12		G-6 P-3	6700	G-6
"	D	26	12		G-8 P-2	6700	G-8
"	D	26	12		G-9 P-1	6700	G-9
6MN8	D	35	14		G-4/10 P-11		G-10
"	D	35	14		G-1/2 P-11		G-1
"	D	35	14		G-6/8 P-11		G-8
6MP17	D	20	8		G-1 P-5/6	5200	G-1
6MP20	D	19	8		G-1 P-5/6	10,500	G-1
6MQ8	D	15	12		G-2 P-3/6	10,000	G-2
"	D	26	12		G-9 P-1	8500	G-9
6MU8	D	15	12		G-2 P-3/6	9000	G-2
"	D	23	12		G-9 P-1	6000	G-9
6MV8	D	52	12		G-2 P-3	4000	G-2
"	D	24	12		G-7 P-8/9	9000	G-7
6MX8	D	35	16		G-2/11 P-6/7	8400	G-2
"	D	100	16		G-9 P-8	1000**	G-9
6MY8	D	30	14	G-6/7	G-10 P-4/8	9300	G-10
"	D	85	14	G-6/7	G-6/7/11 P-2	3600**	G-6/7
6N3*	D	20	12		G-9 P-11		
6N7	D	55	4		G-4 P-3	4000	G-4
"	D	55	4		G-5 P-6	4000	G-5
6N8	D	27	12		G-2 P-1/6	7000	G-2
"*	D	75	12		G-7 P-11		
"*	D	75	12		G-8 P-11		
6P3	D	15	8		G-1 P-5/6	6200	G-1
6P4	D	15	8		G-1 P-5/6	6200	G-1
6P5	D	40	4		G-5 P-3	1100**	G-5
6P15	D	65	12	G-1/2/6/8	G-1/2/11 P-7/9	11,000	G-1/2
6PL12	D	100	12		G-1 P-9	2000**	G-1
"	D	19	12		G-3/11 P-6/7	7500	G-3
6Q5	D	56	4	G-8	G-3/5 P-11		G-5
6Q7	D	95	4		G-10 P-3	1000**	G-10
"*	D	70	4		G-4 P-11		
"*	D	70	4		G-5 P-11		
6Q8	D	55	4		G-5/10 P-3/4/6	1150**	G-5
6Q11	D	95	14		G-1 P-2	1000**	G-1
"	D	95	14		G-7 P-5	1000**	G-7
"	D	70	14		G-9 P-10	2200**	G-9
6R3*	D	28	12	All pins	G-2/9 P-11		
6R4	D	26	12		G-1 P-8	5500	G-1
6R7	D	82	4		G-10 P-3	1900**	G-10
"*	D	75	4		G-4 P-11		
"*	D	75	4		G-5 P-11		
6R8	D	87	12		G-8 P-9	1900**	G-8
"*	D	25	12		G-1 P-11		
"*	D	25	12		G-2 P-11		
"*	D	25	12		G-6 P-11		
6RA6	D	44	12	G-2/7	G-2/7 P-9/13	1500	G-2/7
6RA9	D	30	12	G-2/7	G-2/7 P-9/13	6700	G-2/7
6RB11	D	30	12	G-3/6	G-3/6 P-1/9/13	7500	G-3/6
6RHH2	D	20	12		G-2 P-1	6400	G-2
"	D	20	12		G-7 P-6	6400	G-7
6RHH8	D	30	12		G-7 P-6	16,000	G-7
"	D	30	12		G-2 P-1	16,000	G-2
6RK19*	D	35	12	All pins	G-2/9 P-11		
6RP15	D	10	12	G-1/2	G-1/2 P-7/11	11,000	G-9

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G _m — E _m		NOTES	
							Rated G _m Micromhos	G A S
6RP22	D	45	12	G-2/3/8/9	G-2/9	P-3/6/8	3700**	G-2/9
6S4	D	85	12	G-1/3/6/7/8	G-3/6	P-9	4000**	G-3/6
6S7	D	58	4		G-10	P-3/4	1250**	G-10
6S8	D	100	3		G-10	P-6	600**	G-10
" *	D	65	3		G-1	P-11		
" *	D	65	3		G-3	P-11		
" *	D	65	3		G-4	P-11		
6SA7	D	18	4		G-5	P-3/4	4500	G-5
6SB7Y	D	22	4		G-5	P-3/4	7500	G-5
6SC7	D	100	3		G-3	P-2	750**	G-3
"	D	100	3		G-4	P-5	750**	G-4
6SD7	D	75	4		G-4	P-6/8	3300**	G-4
6SF5	D	100	3		G-3	P-5	750**	G-3
6SF7	D	80	3		G-2	P-4/6	2000**	G-2
" *	D	75	3		G-5	P-11		
6SG7	D	80	4	G-3/5	G-4	P-6/8	4000**	G-4
6SH7	D	85	4	G-3/5	G-4	P-6/8	4000**	G-4
6SJ7	D	55	4		G-4	P-6/8	1600**	G-4
6SK7	D	70	4		G-4	P-6/8	2000**	G-4
6SL7	D	95	3		G-1	P-2	800**	G-1
"	D	95	3		G-4	P-5	800**	G-4
6SN7	D	95	3		G-1	P-2	3000**	G-1
"	D	95	3		G-4	P-5	3000**	G-4
6SQ7	D	100	3		G-2	P-6	600**	G-2
" *	D	80	3		G-4	P-11		
" *	D	80	3		G-5	P-11		
6SR7	D	60	3		G-2	P-6	1100**	G-2
" *	D	80	3		G-4	P-11		
" *	D	80	3		G-5	P-11		
6SS7	D	80	4		G-4	P-6/8	1900**	G-4
6ST7	D	80	3		G-2	P-6	1900**	G-2
" *	D	80	3		G-4	P-11		
" *	D	80	3		G-5	P-11		
6SU7	D	95	3		G-1	P-2	1000**	G-1
"	D	95	3		G-4	P-5	1000**	G-4
6SV7	D	82	3		G-2	P-4/6	2600**	G-2
" *	D	25	3		G-5	P-11		
6SZ7	D	100	3		G-2	P-6	1200**	G-2
" *	D	90	3		G-4	P-11		
" *	D	90	3		G-5	P-11		
6T1	D	15	8	G-1/2/6/7	G-2/6	P-1/7	6000	G-2/6
6T4	D	16	8	G-1/2/6/7	G-2/6	P-1/7	7000	G-2/6
6T8	D	95	12		G-8	P-9	1000**	G-8
" *	D	25	12		G-1	P-11		
" *	D	25	12		G-2	P-11		
" *	D	25	12		G-6	P-11		
6T9	D	90	14		G-4	P-2	1000**	G-4
"	D	47	14		G-8/11	P-1/10	6500	G-8
6T10	D	38	14		G-3	P-6/7	1000**	G-3
"	D	50	14		G-8/11	P-1/10	6500	G-8
6TD31	D	95	12		G-8	P-9	1000**	G-8
" *	D	25	12		G-1	P-11		
" *	D	25	12		G-2	P-11		
"	D	25	12		G-6	P-11		
6TP1	D	28	12		G-9	P-1	8500	G-9
"	D	15	12		G-2	P-3/6	5000	G-2
6U3 *	D	20	12		G-9	P-11		

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	Gm — Em	NOTES	
						Rated Gm Micromhos	GAS
6U4*	D	20	3		G-5 P-11		
6U6	D	34	4		G-5/11 P-3/4	5600	G-5
6U7	D	70	4		G-10 P-3/4	1500**	G-10
6U8	D	28	12		G-9 P-1	8500	G-9
"	D	15	12		G-2 P-3/6	5000	G-2
6U9	D	28	13		G-3 P-7/8	12,000	G-3
"	D	16	13		G-10 P-9	5000	G-10
6U10	D	90	14		G-1/11 P-2	5000	G-1
"	D	90	14		G-9/11 P-10	5000	G-9
"	D	100	14		G-7 P-5	700**	G-7
6V3*	D	30	12	G-2/3/7/9	G-2/7/9 P-11		
6V4*	D	28	12	G-2/6/8/9	G-7 P-11		
"*	D	28	12	G-2/6/8/9	G-1 P-11		
6V6	D	30	4		G-5/11 P-3/4	5000	G-5
6V8	D	100	12		G-6 P-1	1200**	G-6
"*	D	20	12		G-2 P-11		
"*	D	20	12		G-7 P-11		
"*	D	70	12		G-9 P-11		
6V9	D	60	13		G-3 P-2/4/7		G-3
"	D	62	13		G-8 P-10		G-8
6W4*	D	25	3		G-5 P-11		
6W6	D	30	4		G-5/11 P-3/4	8000	G-5
6X4*	D	30	8		G-1 P-11		
"*	D	30	8		G-6 P-11		
6X5*	D	30	4		G-3 P-11		
"*	D	30	4		G-5 P-11		
6X8	D	27	12		G-2 P-3	6500	G-2
"	D	20	12		G-7 P-8/9	5500	G-7
6X9	D	18	13		G-3 P-4/7/8	14,000	G-3
"	D	35	13		G-10 P-9	4800	G-10
6Y6	D	20	4		G-5 P-3/4	5000	G-5
6Y9	D	23	13		G-1 P-3/4	8500	G-1
"	D	15	13		G-8 P-9/10		G-8
6Y10	D	64	14		G-3 P-6/7	3700**	G-3
"	D	25	14		G-8 P-1/10	8400	G-8
6Z10	D	54	14		G-1/11 P-2/9	6500	G-1
"	D	60	14		P-4/5/6/7/13		
6ZY5*	D	27	4		G-3 P-11		
"*	D	27	4		G-5 P-11		
7A4	D	80	17		G-6 P-2	2600**	G-6
7A5	D	20	17		G-6/11 P-2/3	5800	G-6
7A6*	D	35	17		G-3 P-11		
"*	D	35	17		G-6 P-11		
7A7	D	25	17		G-6 P-2/3	2200**	G-6
7A8	D	60	17		G-4 P-2/3/5	1600**	G-4
7AD7	D	15	17		G-6 P-2/3	9500	G-6
7AF7	D	70	17		G-4 P-3	2000**	G-4
"	D	70	17		G-5 P-6	2000**	G-5
7AG7	D	78	17		G-6 P-2/3	2600**	G-6
7AH7	D	85	17		G-6 P-2/3	2000**	G-6
7AK7	D	12	17		G-6 P-2/3	5500	G-6
7AN7	D	20	12	G-7/8	G-2 P-3	2500	G-2
"	D	20	12	G-7/8	G-6 P-9	2500	G-6
7AU7	D	90	12	G-9	G-2 P-9	2500	G-6
"	D	90	12	G-9	G-7 P-6	3000**	G-7
7B4	D	100	17		G-6 P-2	600**	G-6

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	G A S
7B5	D	75	17		G-6/11	P-2/3	1500**	G-6
7B6	D	100	17	G-4/7	G-3	P-2	600**	G-3
"*	D	70	17	G-4/7	G-5	P-11		
"*	D	70	17	G-4/7	G-6	P-11		
7B7	D	65	17		G-6	P-2/3	1600**	G-6
7B8	D	30	17		G-4	P-2/3/5	1100**	G-4
7C5	D	95	17		G-6/11	P-2/3	3700**	G-6
7C6	D	55	16	G-4/7	G-2/3	P-11		G-3
"*	D	60	17	G-4/7	G-5	P-11		
"*	D	60	17	G-4/7	G-6	P-11		
7C7	D	70	17		G-6	P-2/3	2200**	G-6
7D9	D	67	8		G-1	P-5/7	2600**	G-1
7D10	D	80	12	G-1/9	G-2/11	P-7/8	7500	G-2
7DJ8	D	85	12		G-2/11	P-1	12,000	G-2
"	D	85	12		G-7/11	P-6	12,000	G-7
7E6	D	75	17	G-4/7	G-3	P-2	1500**	G-3
"*	D	75	17	G-4/7	G-5	P-11		
"*	D	75	17	G-4/7	G-6	P-11		
7E7	D	90	17		G-6	P-2/5	1600**	G-6
"*	D	75	17		G-3	P-11		
"*	D	75	17		G-4	P-11		
7ES8	D	90	12		G-2/11	P-1	8000	G-2
"	D	90	12		G-7/11	P-6	8000	G-7
7EY6	D	95	4		G-5/11	P-3/4	4000**	G-5
7F7	D	100	17		G-4	P-3	1000**	G-4
"	D	100	17		G-5	P-6	1000**	G-5
7G7	D	54	17		G-6	P-2/3	4000**	G-6
7G8	D	70	17		G-5	P-3/7	2000**	G-5
"	D	70	17		G-4	P-2/3	2000**	G-4
7GS7	D	18	12	G-3/8	G-1	P-2	5500	G-1
"	D	45	12	G-3/8	G-9	P-6/7	12,000	G-9
7GV7	D	17	12	G-6/8	G-9	P-1	5500	G-9
"	D	37	12	G-6/8	G-7	P-2/3	11,000	G-7
7H7	D	80	17		G-6	P-2/3	4000**	G-6
7HG8	D	15	12	G-1/3	G-6	P-7	7000	G-6
"	D	23	12	G-1/3	G-2	P-8/9	10,000	G-2
7J7	D	80	17		G-4	P-3	1400**	G-4
"	D	26	17		G-6	P-2/5	1000**	G-6
7K7	D	100	17		G-4	P-3	1100**	G-4
"*	D	80	17		G-5	P-11		
"*	D	80	17		G-6	P-11		
7KY6	D	26	12	G-3/9	G-2	P-7/8	20,000	G-2
7KZ6	D	27	12	G-3/9	G-2	P-7/8	20,000	G-2
7L7	D	63	17		G-6	P-2/3	3000**	G-6
7MP18	D	7	8	G-1/7	G-1/7	P-5/11	11,000	G-1/7
7N7	D	87	17		G-4	P-3	2800**	G-4
"	D	87	17		G-5	P-6	2800**	G-5
7Q7	D	20	17		G-4	P-2/3	5000	G-4
7R7	D	85	17		G-6	P-2/5	3000**	G-6
"*	D	100	17		G-3	P-11		
"*	D	100	17		G-4	P-11		
7S7	D	85	17		G-4	P-3	1200**	G-4
"	D	22	17		G-6	P-2/5	1000**	G-6
7V7	D	13	17		G-6	P-2/3	5800	G-6
7W7	D	15	17	G-4/7	G-6	P-2/3	5800	G-6

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	G m — Em	NOTES	
						Rated Gm Micromhos	G A S
7X6*	D	25	17		G-3 P-11		
"*	D	25	17		G-6 P-11		
7X7	D	100	17		G-3 P-2	600**	G-3
"*	D	25	17		G-5 P-11		
"*	D	25	17		G-6 P-11		
7Y4*	D	25	17		G-3 P-11		
"*	D	25	17		G-6 P-11		
7Z4*	D	30	17		G-3 P-11		
"*	D	30	17		G-6 P-11		
8A8	E	18	12		G-2 P-3/6	6500	G-2
"	E	15	12		G-9 P-1	5500	G-9
8AC9	E	34	14	G-3	G-9 P-1/10	10,000	G-9
"*	E	24	14	G-3	G-2 P-11		
8AC10	E	46	14		G-1 P-2	5800	G-1
"	E	46	14		G-9 P-10	5800	G-9
"	E	46	14		G-7 P-5	5800	G-7
8AL9	E	40	14		G-5 P-7	6300	
"	E	21	14		G-1 P-2/10	20,000	
8AR11	E	45	14		G-5 P-2/3	10,500	G-5
"	E	45	14		G-10 P-8/9	10,500	G-10
8AU8	E	39	12		G-2 P-3	5300	G-2
"	E	18	12		G-7 P-8/9	8000	G-7
8AV11	E	80	14		G-1 P-2	2200**	G-1
"	E	80	14		G-7 P-5	2200**	G-7
"	E	80	14		G-9 P-10	2200**	G-9
8AW8	E	50	12		G-2 P-3	4000	G-2
"	E	20	12		G-7 P-8/9	9000	G-7
8B8	E	85	12		G-1 P-9	5000	G-1
"	E	22	12		G-3 P-7/8	6000	G-3
8B10	E	80	14		G-3 P-4	2500**	G-3
"	E	80	14		G-5 P-6	2500**	G-5
"*	E	25	14		G-8 P-11		
"*	E	25	14		G-10 P-11		
8BA8	E	65	12		G-2 P-3	2700**	G-2
"	E	77	12		G-7/11 P-8/9	9000	G-7
8BA11	E	55	14		G-4 P-2/3/6	2000**	G-4
"	E	68	14		G-9 P-1	1800**	G-9
8BH8	E	60	12		G-2 P-3	3300**	G-2
"	E	14	12		G-7 P-8/9	7000	G-7
8BM11	E	21	14		G-6 P-2/3	8800	G-6
"	E	25	14		G-1 P-7/9	8500	G-1
8BN8	E	90	12		G-8 P-7	2000**	G-8
"*	E	25	12		G-1 P-11		
"*	E	25	12		G-6 P-11		
8BN11	E	55	14		G-7 P-1/9	13,000	G-7
"	E	55	14		G-3 P-4/5	13,000	G-3
8BQ5	E	65	12	G-1/2/6/8	G-1/2/11 P-7/9	11,000	G-1/2
8BQ7	E	20	12		G-2 P-1	6400	G-2
"	E	20	12		G-7 P-6	6400	G-7
8BQ11	E	52	14		G-5 P-2/3	13,000	G-5
"	E	42	14		G-10 P-8/9	10,500	G-10
8BU11	E	34	14		G-4 P-3	8600	G-4
"	E	34	14		G-6 P-7	8600	G-6
"	E	22	14		G-8 P-9/10	7500	G-8
8CB11	E	45	14		G-5 P-2/3	18,000	G-5
"	E	45	14		G-10 P-8/9	17,000	G-10

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	G _m — E _m	NOTES	
						Rated G _m Micromhos	G A S
8CG7	E	90	12		G-2 P-1	3000**	G-2
"	E	90	12		G-7 P-6	3000**	G-7
8CM7	E	80	12		G-7 P-6	2000**	G-7
"	E	80	12		G-8 P-1	4400**	G-8
8CN7	E	100	12	G-9	G-7 P-8	1000**	G-7
" *	E	25	12	G-9	G-1 P-11		
" *	E	25	12	G-9	G-2 P-11		
8CS7	E	15	12		G-3 P-1	4500	G-3
"	E	85	12		G-7 P-6	2200	G-7
8CW5	E	20	12	G-1/2/7/8	G-1/2/11 P-6/7/8/9	9000	G-1/2
8CX8	E	24	12		G-2 P-3	4600	G-2
"	E	30	12		G-7 P-8/9	10,000	G-7
8CY7	E	100	12	G-2/3	G-7 P-6	1000**	G-7
"	E	13	12	G-2/3	G-2/3 P-1	5000	G-2/3
8D3	D	27	8		G-1 P-5/7	7600	G-1
8D8	D	90	12	G-2/7	G-9 P-1/6	2000**	G-9
8DX8	E	27	12		G-8 P-6/9	10,000	G-8
"	E	70	12		G-1 P-2	4000	G-1
8EB8	E	100	12		G-2 P-3	1200**	G-2
"	E	28	12		G-7 P-8/9	12,500	G-7
8EM5	E	20	12	G-3/6	G-3/6/11 P-1/9	5000	G-3/6
8ET7	E	80	12		G-7/11 P-8/9	10,000	G-7
" *	E	90	12		G-2 P-11		
" *	E	90	12		G-3 P-11		
8FQ7	E	90	12		G-2 P-1	2600**	G-2
"	E	90	12		G-7 P-6	2600**	G-7
8GJ7	E	15	12	G-1/3	G-9 P-8	9000	G-9
"	E	18	12	G-1/3	G-2 P-6/7	10,500	G-2
8GK6	E	18	12	G-3/9	G-2 P-7/8	11,300	G-2
8GN8	E	95	12		G-2 P-3	1000**	G-2
"	E	15	12		G-7 P-8/9	11,500	G-7
8GU7	E	65	12		G-2 P-1	3000**	G-2
"	E	65	12		G-7 P-6	3000**	G-7
8GX7	E	27	12	G-1/3	G-9 P-8	8500	G-9
"	E	31	12	G-1/3	G-2 P-6/7	11,000	G-2
8HA6	E	30	12	G-3/6/8/9	G-2 P-6/7/8	20,000	G-2
8HG8	E	15	12	G-1/3	G-6 P-7	7000	G-6
"	E	23	12	G-1/3	G-2 P-8/9	10,000	G-2
8JE8	E	40	12		G-2 P-3	4200	G-2
"	E	25	12		G-7 P-8/9	12,000	G-7
8JK8	E	26	12		G-7 P-6	6800	G-7
"	E	45	12		G-2 P-1	13,000	G-2
8JU8*	E	30	12	G-2/8	G-1 P-11		
" *	E	30	12	G-2/8	G-1/2 P-11		
" *	E	30	12	G-2/8	G-7 P-11		
" *	E	30	12	G-2/8	G-7/8 P-11		
8JV8	E	75	12		G-2 P-3	2000**	G-2
"	E	22	12		G-7 P-8/9	11,000	G-7
8K11	E	95	14		G-1 P-2	1000**	G-1
"	E	95	14		G-7 P-5	1000**	G-7
"	E	70	14		G-9 P-10	2200**	G-9
8KA8	E	38	12		G-2 P-1	4000	G-2
"	E	27	12		G-6 P-8/9	4400	G-6
8KR8	E	37	12		G-2 P-3	10,400	G-2
"	E	35	12		G-7 P-8/9	20,000	G-7

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	Gm — Em	NOTES	
						Rated Gm Micromhos	G A S
8KT8	E	97	12		G-2 P-3	2500**	G-2
"	E	24	12		G-7 P-8/9	10,000	G-7
8KY8	E	35	16		G-2/11 P-6/7	8400	G-2
"	E	100	16		G-9 P-8	1000**	G-9
8LC8	E	95	12	G-3	G-2 P-1	3400**	G-2
"	E	62	12	G-3	G-6 P-8/9	4400**	G-6
8LE8	E	6	12		G-9 P-6/8	5800	G-9
"	E	5	12		G-9 P-1/8	5800	G-9
8LS6	E	21	12	G-3/9	G-2 P-7/8	11,000	G-2
8LT8	E	32	12	G-1 when tube	G-9 P-2/3	13,000	G-9
" *	E	23	12	is heated	G-6 P-11		
" *	E	23	12		G-8 P-11		
8MD8	E	69	16		G-6 P-3	3100**	G-6
"	E	69	16		G-8 P-2	3100**	G-8
"	E	69	16		G-9 P-1	3100**	G-9
8MU8	E	15	12		G-2 P-3/6	9000	G-2
"	E	23	12		G-9 P-1	6000	G-9
8RHP1	E	85	12		G-1 P-9	5000	G-1
"	E	22	12		G-3 P-7/8	6000	G-3
8SN7	E	95	3		G-1 P-2	3000**	G-1
"	E	95	3		G-4 P-5	3000**	G-4
8U9	E	28	13		G-3 P-7/8	12,000	G-3
"	E	16	13		G-10 P-9	5000	G-10
8X9	E	18	13		G-3 P-4/7/8	14,000	G-3
"	E	35	13		G-10 P-9	4800	G-10
9A8	E	18	12		G-2 P-3/6	6500	G-2
"	E	15	12		G-9 P-1	5500	G-9
9AB4	E	100	8		G-6 P-1	4000**	G-6
9AH9	E	64	14	G-5/6	G-2 P-3	2750**	G-2
"	E	22	14	G-5/6	G-5/6 P-1/8	21,000	G-5/6
9AK8	E	95	12		G-8 P-9	1000**	G-8
" *	E	25	12		G-1 P-11		
" *	E	25	12		G-2 P-11		
" *	E	25	12		G-6 P-11		
9AK10	E	20	14		G-1 P-2	7000	G-1
"	E	20	14		G-7 P-5	7000	G-7
"	E	20	14		G-9 P-10	7000	G-9
9AM10	E	40	14		G-1 P-2	6900	G-1
"	E	40	14		G-7 P-5	6900	G-7
"	E	40	14		G-9 P-10	6900	G-9
9AQ8	E	25	12		G-2 P-1	6000	G-2
"	E	25	12		G-7 P-6	6000	G-7
9AU7	E	90	12	G-9	G-2 P-1	3000**	G-2
"	E	90	12	G-9	G-7 P-6	3000**	G-7
9BJ11	E	19	14		G-6 P-2/3	9600	G-6
"	E	21	14		G-1 P-7/9	7500	G-1
9BR7	E	80	12	G-9	G-2 P-1	2000**	G-2
" *	E	25	12	G-9	G-6 P-11		
" *	E	25	12	G-9	G-7 P-11		
9BR8	E	28	12		G-1 P-2	8500	G-1
"	E	15	12		G-9 P-6/7	5200	G-9
9BW6	E	87	12	G-6	G-2 P-7/8	3700**	G-2
9CG8	E	16	12	G-3/8	G-9 P-6/7	4600	G-9
9CL8	E	35	12		G-1 P-2	8000	G-1
"	E	20	12		G-9 P-6/7	6000	G-9

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m - E m		NOTES	
							Rated Gm Micromhos	G A S
9DZ8	E	95	12		G-1	P-9	1400**	G-1
"	E	17	12		G-3	P-6/7	7500	G-3
9EA8	E	18	12		G-2	P-3/6	6400	G-2
9ED4	D	50	15	G-1/2/3/6/7/9	G-8/10	P-11		G-8
9GH8	E	27	12		G-2	P-3/6	7500	G-2
"	E	27	12		G-9	P-1	8500	G-9
9GV8	E	34	12		G-2	P-1	6500	G-2
"	E	20	12		G-9/11	P-6/7	7000	G-9
9JW8	E	90	12		G-9	P-1	2000**	G-9
"	E	27	12		G-2	P-3/6	5500	G-2
9KC6	E	37	12		G-2	P-7/9	24,000	G-2
9KG6	E	56	15	G-1/2/3/6/7/8	G-1/8	P-3/6/10		G-1/8
9KV8	E	42	12		G-2	P-3	4000**	G-2
"	E	24	12		G-7	P-8/9	23,000	G-7
9KX6	E	25	12	G-3/9	G-2	P-7/8	20,000	G-2
9KZ8	E	26	12		G-2	P-6/7	7500	G-2
"	E	37	12		G-9	P-1	8500	G-9
9LA6	E	28	12	G-3/9	G-2	P-7/8	19,000	G-2
9MHH3	E	26	8		G-6	P-1	5300	G-6
"	E	26	8		G-5	P-2	5300	G-5
9ML8	E	26	12		G-6	P-3	6700	G-6
"	E	26	12		G-8	P-2	6700	G-8
"	E	26	12		G-9	P-1	6700	G-9
9MN8	E	35	14		G-4/10	P-11		G-10
"	E	35	14		G-1/2	P-11		G-1
"	E	35	14		G-6/8	P-11		G-8
9MP12	E	18	8		G-1	P-5/6	5500	G-1
9RA6	E	44	12	G-2/7	G-2/7	P-9/13	1500	
9RAL1	E	15	12	G-2/3	G-2/3	P-1	7500	G-2/3
"	E	45	12	G-2/3	G-7	P-6	1000**	G-7
9RHR2	E	27	12		G-2	P-3/6	7500	G-2
"	E	27	12		G-9	P-1	8500	G-9
9U8	E	35	12		G-9	P-1	8500	G-9
"	E	20	12		G-2	P-3/6	5000	G-2
9V9	E	60	13		G-3	P-2/4/7		G-3
"	E	62	13		G-8	P-10		G-8
9X8	E	27	12		G-2	P-3	6500	G-2
"	E	20	12		G-7	P-8/9	5500	G-7
10AF11	E	90	14		G-1/11	P-2/10	10,000	G-1
"	E	40	14		G-6	P-8	5500	G-6
"	E	35	14		G-3	P-4	4400	G-3
10AL11	E	30	14		G-3	P-6/7	1000**	G-3
"	E	58	14		G-8/11	P-1/10	6500	G-8
10BQ5	E	65	12	G-1/2/6/8	G-1/2/11	P-7/9	11,000	G-1/2
10C8	E	90	12		G-2	P-1	2400**	G-2
"	E	20	12		G-8	P-6/7	8000	G-8
10CL8	E	30	12		G-1	P-2	8000	G-1
"	E	15	12		G-9	P-6/7	6000	G-9
10CW5	E	30	12	G-1/2/6/7/8/9	G-1/2/11	P-6/7/8/9	10,000	G-1/2
10DE7	E	17	12	G-2/3	G-2/3	P-1	6500	G-2/3
"	E	80	12	G-2/3	G-7	P-6	2000**	G-7
10DR7	E	15	12	G-2/3	G-2/3	P-1	6000	G-2/3
"	E	85	12	G-2/3	G-7	P-6	1000**	G-7
10DX8	E	27	12		G-8	P-6/9	10,000	G-8
"	E	70	12		G-1	P-2	4000	G-1

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m — Em		NOTES	
							Rated Gm Micromhos	G A S
10EB8	E	100	12		G-2	P-3	1200**	G-2
"	E	28	12		G-7	P-8/9	12,500	G-7
10EG7	E	20	3		G-1/11	P-2	7500	G-1
"	E	95	3		G-4/11	P-5	1400**	G-4
10EM7	E	17	3		G-1	P-2	7200	G-1
"	E	90	3		G-4	P-5	1000**	G-4
10EW7	E	20	12	G-2/3	G-2/3/11	P-1	7500	G-2/3
"	E	80	12	G-2/3	G-7	P-6	2000**	G-7
10FD7	E	20	12	G-2/3	G-2/3	P-1	7500	G-2/3
"	E	90	12	G-2/3	G-7	P-6	1000**	G-7
10FR7	E	44	12	G-2/3	G-2/3	P-1	7200	G-2/3
"	E	90	12	G-2/3	G-7	P-6	1600**	G-7
10GF7	E	18	16		G-2/11	P-6	7200	G-2
"	E	90	16		G-9	P-8	1000**	G-9
10CH8	E	27	12		G-2	P-3/6	7500	G-2
"	E	27	12		G-9	P-1	8500	G-9
10GK6	E	18	12	G-3/9	G-2	P-7/8	11,300	G-2
10GN8	E	95	12		G-2	P-3	1000**	G-2
"	E	15	12		G-7	P-8/9	11,500	G-7
10GV8	E	34	12		G-2	P-1	6500	G-2
"	E	20	12		G-9/11	P-6/7	7000	G-9
10HA6	E	30	12	G-3/6/8/9	G-2	P-6/7/8	20,000	G-2
10HF8	E	60	12		G-2	P-3	4000	G-2
"	E	22	12		G-7	P-8/9	12,500	G-7
10J10	E	54	14		G-1/11	P-2/9	6500	G-1
"	E	60	14		P-4/5/6/7/13			
10JA5	E	30	14	G-1/2/3/4/9/10	G-2/9	P-3/6/10	10,500	G-2/9
10JA8	E	87	12		G-2	P-3	2600**	G-2
"	E	24	12		G-7	P-8/9	12,600	G-7
10JT8	E	100	12		G-2	P-3	850**	G-2
"	E	25	12		G-7	P-8/9	20,000	G-7
10JY8	E	35	12		G-2	P-3	10,000	G-2
"	E	80	12		G-7/11	P-8/9	10,500	G-7
10KR8	E	37	12		G-2	P-3	10,400	G-2
"	E	55	12		G-7	P-8/9	20,000	G-7
10KU8	E	23	12		G-7	P-8/9	20,000	G-7
" *	E	32	12		G-2	P-11		
" *	E	32	12		G-3	P-11		
10L14	H	20	12		G-2	P-1	6000	G-2
"	H	20	12		G-7	P-6	6000	G-7
10LB8	E	20	12		G-2	P-3	5000	G-2
"	E	30	12		G-7	P-8/9	20,000	G-7
10LD6	E	21	12	G-3/6/8/9	G-2	P-6/7/8	20,000	G-2
10LE8	E	6	12		G-9	P-6/8	5800	G-9
"	E	5	12		G-9	P-1/8	5800	G-9
10LM8	E	20	12		G-2	P-3/6	6000	G-2
"	E	45	12		G-9	P-1	8500	G-9
10LW8	E	86	12		G-2	P-3	2000**	G-2
"	E	18	12		G-7	P-8/9	19,000	G-7
10LY8	E	62	12		G-7/13	P-8/9	20,000	G-7
"	E	95	12		G-2	P-3	5000	G-2
10LZ8	E	95	12		G-2	P-3	800**	G-2
"	E	25	12		G-7	P-8/9	9500	G-7
10P18	J	18	12	G-1/2/7/8	G-1/2	P-7/8/9	10,000	G-1/2
10T10	E	38	14		G-3	P-6/7	1000**	G-3
"	E	50	14		G-8/11	P-1/10	6500	G-8

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	G m — E m	NOTES	
						Rated Gm Micromhos	G A S
10Z10	E	54	14		G-1/11 P-2/9	6500	G-1
	E	60	14		P-4/5/6/7/13		
11AF9	F	55	13	G-2	G-8 P-9/10	22,000	G-8
"	F	12	13	G-2	G-1 P-3/6	8500	G-1
11AR11	F	45	14		G-5 P-2/3	10,500	G-5
"	F	45	14		G-10 P-8/9	10,500	G-10
11BM8	F	100	12		G-1 P-9	2000**	G-1
"	F	19	12		G-3/11 P-6/7	7500	G-3
11BQ11	F	52	14		G-5 P-2/3	13,000	G-5
"	F	42	14		G-10 P-8/9	10,500	G-10
11BT11	F	24	14	G-6 when tube is heated	G-1 P-2/10	19,000	G-1
"	F	47	14		G-5 P-7	5500	G-5
"	F	23	14		G-3 P-9	5300	G-3
11CA11	F	29	14		G-3 P-2/13	5500	G-3
"	F	30	14		G-6 P-4/13	6300	G-6
"	F	34	14		G-8 P-1/10	21,200	G-8
11CF11	F	29	14		G-9 P-10	5500	G-9
"	F	31	14		G-1 P-2/13	6300	G-1
"	F	20	14		G-5 P-3/4	21,200	G-5
11CH11	F	18	14	G-6 when tube is heated	G-1 P-2/10	20,000	G-1
"	F	40	14		G-5 P-7	5500	G-5
"	F	15	14		G-3 P-9	5300	G-3
11CY7	F	100	12	G-2/3	G-7 P-6	1000**	G-7
"	F	13	12	G-2/3	G-2/3 P-1	5000	G-2/3
11DS5	F	30	8	G-1/7	G-1/7/11 P-5/6	6000	G-1/7
11FY7	F	25	14		G-3/11 P-5	7500	G-3
"	F	90	14		G-10 P-1	1000**	G-10
11HM7	F	24	12	G-3/6/9	G-2 P-7/8	20,000	G-2
11JE8	F	40	12		G-2 P-3	4200	G-2
"	F	25	12		G-7 P-8/9	12,000	G-7
11KV8	F	42	12		G-2 P-3	1000**	G-2
"	F	42	12		G-7 P-8/9	23,000	G-7
11LQ8	F	22	12		G-2 P-3	10,400	G-2
"	F	13	12		G-7 P-8/9	21,000	G-7
11LT8	F	54	12	G-1	G-9 P-2/3	13,000	G-2
" *	F	23	12	G-1	G-6 P-11		
" *	F	23	12	G-1	G-8 P-11		
11LY6	F	21	12	G-3/9	G-2 P-7/8	11,000	G-2
11MS8	E	10	12		G-2 P-1/11		
"	E	19	12		G-9/10 P-6/7	7000	G-9
11R3*	F	28	12		G-2/9 P-11		
11Y9	F	23	13		G-1 P-3/4	8500	G-1
"	F	15	13		G-8 P-9/10		G-8
12A4	F	36	12	G-2/3/7	G-2/7/11 P-9	8000	G-2/7
12A6	F	90	4		G-5/11 P-3/4	3000**	G-5
12A8	F	48	4		G-5/10 P-3/4/6	1150**	G-5
12AB5	F	90	12	G-1/3/6/8	G-3/6/11 P-1/8/9	3000**	G-3/6
12AC6	F	35	8		G-1 P-5/6	1000**	G-1
12AC10	F	46	14		G-1 P-2	5800	G-1
"	F	46	14		G-9 P-10	5800	G-9
"	F	46	14		G-7 P-5	5800	G-7
12AD6	F	75	8		G-1 P-5/6	3600**	G-1
12AD7	F	84	12	G-9	G-2 P-1	1000**	G-2
"	F	84	12	G-9	G-7 P-6	1000**	G-7

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	Gm — Em	NOTES	
						Rated Gm Micromhos	G A S
12AE6	F	40	8		G-1 P-7	1000**	G-1
" *	F	100	8		G-5 P-11		
" *	F	100	8		G-6 P-11		
12AE7	F	15	12	G-9	G-2 P-1	6500	G-2
"	F	40	12	G-9	G-7 P-6	4000**	G-7
12AE10	F	30	14		G-3 P-6/7	1000**	G-3
"	F	16	14		G-8 P-1/10	5600	G-8
12AF3*	F	35	12	All pins	G-2/9 P-11		
12AF4	F	15	8	G-1/2/6/7	G-2/6 P-1/7	6000	G-2/6
12AF6	F	15	8		G-1 P-5/6	1150**	G-1
12AF11	F	90	14		G-1/11 P-2/10	10,000	G-1
"	F	40	14		G-6 P-8	5500	G-6
"	F	35	14		G-3 P-4	4400	G-4
12AG6	F	66	8		G-1 P-5/6	3400**	G-1
12AH7	F	70	3		G-1 P-3	1500**	G-1
"	F	70	3		G-5 P-6	1500**	G-5
12AJ6	F	100	8		G-1 P-7	1000**	G-1
" *	F	80	8		G-5 P-11		
" *	F	80	8		G-6 P-11		
12AJ7	F	100	12		G-9 P-8	3700**	G-9
"	F	60	12		G-2 P-1/6	2400**	G-2
12AL5*	F	25	8		G-2 P-11		
" *	F	25	8		G-7 P-11		
12AL8	F	66	12		G-3 P-2/6	15,000	G-3
"	F	45	12		G-8 P-1	1000**	G-8
12AL11	F	30	14		G-3 P-6/7	1000**	G-3
"	F	58	14		G-8/11 P-1/10	6500	G-8
12AQ5	F	90	8	G-1/7	G-1/7 P-5/6	3700**	G-1/7
12AT6	F	90	8		G-1 P-7	1000**	G-1
" *	F	90	8		G-5 P-11		
" *	F	90	8		G-6 P-11		
12AT7	F	90	12	G-9	G-2 P-1	3300**	G-2
"	F	90	12	G-9	G-7 P-6	3300**	G-7
12AU6	F	85	8		G-1 P-5/6	4000**	G-1
12AU7	F	90	12	G-9	G-2 P-1	3000**	G-2
"	F	90	12	G-9	G-7 P-6	3000**	G-7
12AU8	F	39	12		G-2 P-3	5300	G-2
"	F	18	12		G-7 P-8/9	8000	G-7
12AV5	F	40	4		G-1/5/8 P-11		G-1
12AV6	F	100	8		G-1 P-7	850**	G-1
" *	F	90	8		G-5 P-11		
" *	F	90	8		G-6 P-11		
12AV7	F	20	12	G-9	G-2 P-1	6100	G-2
"	F	20	12	G-9	G-7 P-6	6100	G-7
12AW6	F	15	8		G-1 P-5/6	5000	G-1
12AX3*	F	25	14	G-4/10	G-4/10 P-11		
12AX4*	F	30	3		G-5 P-11		
12AX5*	F	35	4		G-3 P-11		
" *	F	35	4		G-5 P-11		
12AX7	F	100	12	G-9	G-2 P-1	1000**	G-2
"	F	100	12	G-9	G-7 P-6	1000**	G-7
12AX12	F	60	14		G-1 P-5		G-1
12AY3*	F	25	16	G-1/2/3/6/7/	G-2/7 P-11		
"				8/9			
12AY7	F	95	12	G-9	G-2 P-1	1750**	G-2
"	F	95	12	G-9	G-7 P-6	1750**	G-7

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G _m — E _m		NOTES	
							Rated G _m Micromhos	GAS
12AZ7	F	95	12	G-9	G-2	P-1	3000**	G-2
"	F	95	12	G-9	G-7	P-6	3000**	G-7
12B4	F	20	12	G-2/3/7	G-2/7/11	P-9	6000	G-2/7
12BA6	F	80	8		G-1	P-5/6	4000**	G-1
12BA7	F	17	12	G-6/8	G-2	P-1/9	8000	G-2
12BB14	F	15	15	G-1/2/3/6/7/8	G-1/2	P-6/7/10	7500	G-1/2
12BD6	F	80	8		G-1	P-5/6	2500**	G-1
12BE3*	F	25	14	G-4/10	G-4/10	P-11		
12BE6	F	25	8		G-1	P-5/6	7000	G-1
12BF6	F	80	8		G-1	P-7	2000**	G-1
" *	F	90	8		G-5	P-11		
" *	F	90	8		G-6	P-11		
12BF11	F	60	14		G-3	P-6/7	2000**	G-3
"	F	15	14		G-8	P-1/10	8000	G-8
12BH7	F	55	12	G-9	G-2	P-1	3000**	G-2
"	F	55	12	G-9	G-7	P-6	3000**	G-7
12BK5	F	20	12	G-3/7	G-3/7	P-1/8	8500	G-3/7
12BK6	F	48	8		G-1/7	P-11		G-1
" *	F	80	8		G-5	P-11		
" *	F	80	8		G-6	P-11		
12BL6	F	26	8		G-1	P-5/6	1300**	G-1
12BL7	F	42	3		G-1/11	P-2	7000	G-1
"	F	42	3		G-4/11	P-5	7000	G-4
12BN6	F	85	8		G-13	P-2/5/7		G-2
12BQ6	F	25	4		G-5/11	P-4/10	6000	G-5
12BR3*	F	35	12	All pins	G-2/9	P-11		
12BR7	F	68	12	G-9	G-2	P-1	2000**	G-2
" *	F	25	12	G-9	G-6	P-11		
" *	F	25	12	G-9	G-7	P-11		
12BS3*	F	23	16	G-2/7	G-2/7	P-11		
12BT3*	F	25	14	G-4/10	G-4/10	P-11		
12BT6	F	90	8		G-1	P-7	1200**	G-1
" *	F	75	8		G-5	P-11		
" *	F	75	8		G-6	P-11		
12BU6	F	68	8		G-1	P-7	1500**	G-1
" *	F	70	8		G-5	P-11		
" *	F	70	8		G-6	P-11		
12BV7	F	90	12	G-3/6/9	G-2/11	P-7/8	12,500	G-2
12BV11	F	72	14		G-7	P-9/10	3700**	G-7
"	F	72	14		G-6	P-3/4	3700**	G-6
12BW4*	F	35	12		G-1	P-11		
" *	F	35	12		G-7	P-11		
12BX6	F	12	12	G-1/3	G-2	P-7/8	6000	G-2
12BY7	F	35	12	G-3/9	G-2/13	P-7/8	11,000	G-2
							Set 6 at P	for SHORTS
12BZ6	F	21	8		G-1	P-5/6	8000	G-1
12BZ7	F	90	12	G-9	G-2	P-1	1000**	G-2
"	F	90	12	G-9	G-7	P-6	1000**	G-7
12C5	F	25	8	G-2/5	G-2/5/11	P-6/7	7500	G-2/5
12C8	F	90	4		G-10	P-2/6	1200**	G-10
" *	F	75	4		G-4	P-11		
" *	F	75	4		G-5	P-11		
12CA5	F	14	8	G-2/5	G-2/5	P-6/7	7500	G-2/5
12CB6	F	15	8		G-1	P-5/6	6200	G-1
12CD6	F	30	4		G-5/11	P-8/10	7500	G-5
12CK3*	F	17	16	G-2/7	G-2/7	P-11		

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	G A S
12CL3*	F	25	16	G-2/7	G-2/7	P-11		
12CM6	F	90	12	G-3/6	G-3/6	P-1/9	3900**	G-3/6
12CN5	F	55	8	G-2/5	G-2/5	P-6/7	3800**	G-2/5
12CR6	F	65	8		G-7	P-5/6	1950**	G-7
" *	F	75	8		G-2	P-11		
12CS6	F	20	8		G-1	P-5/6	1100**	G-1
12CS7	F	15	12		G-3	P-1	4500	G-3
"	F	85	12		G-7	P-6	2200**	G-7
12CT3*	F	25	12	G-2/6	G-2/6	P-11		
12CT8	F	25	12		G-2	P-1	4900	G-2
"	F	15	12		G-8	P-6/7	7000	G-8
12CU5	F	25	8	G-2/5	G-2/5/11	P-6/7	7500	G-2/5
12CU6	F	20	4		G-5/11	P-4/10	5900	G-5
12CX6	F	35	8		G-1	P-5/6	3000**	G-1
12D4*	F	25	3		G-5	P-11		
12DA6	F	12	12	G-1/6	G-2	P-7/8	4400	G-2
12DB5	F	32	12	G-2/3/6/7/8	G-3/6/11	P-1/9	8000	G-3/6
12DE8	F	30	12		G-1	P-6/8	1500**	G-1
" *	F	30	12		G-3	P-11		
12DF7	F	100	12	G-9	G-2	P-1	1000**	G-2
"	F	100	12	G-9	G-7	P-6	1000**	G-7
12DJ8	F	85	12		G-2/11	P-1	12,000	G-2
"	F	85	12		G-7/11	P-6	12,000	G-7
12DK6	F	22	8		G-1	P-5/6	9800	G-1
12DK7	F	12	12	G-1/8	G-1/8	P-3/7	5000	G-1/8
" *	F	65	12	G-1/8	G-6	P-11		
" *	F	65	12	G-1/8	G-9	P-11		
12DL8	F	55	12		G-3	P-6/7	15,000	G-3
" *	F	75	12		G-1	P-11		
" *	F	75	12		G-9	P-11		
12DM4*	F	25	3		G-5	P-11		
12DQ4*	F	25	3		G-5	P-11		
12DQ6	F	20	4		G-5/11	P-4/10	6000	G-5
12DQ7	F	20	12	G-3/6/9	G-2	P-7/8	10,000	G-2
12DS7	F	23	12		G-3	P-6/7	5000	G-3
" *	F	70	12		G-1	P-11		
" *	F	70	12		G-9	P-11		
12DT1	F	90	8		G-1	P-7	1000**	G-1
" *	F	90	8		G-5	P-11		
" *	F	90	8		G-6	P-11		
12DT5	F	21	12	G-3/6	G-3/6/11	P-1/9	6200	G-3/6
12DT6	F	25	8		G-1	P-5/6	1000**	G-1
12DT7	F	100	12	G-9	G-2	P-1	1000**	G-2
"	F	100	12	G-9	G-7	P-6	1000**	G-7
12DT8	F	25	12		G-2	P-1	4500	G-2
"	F	25	12		G-7	P-6	4500	G-7
12DU7	F	15	12		G-1	P-3/6	6200	G-1
" *	F	95	12		G-7	P-11		
" *	F	95	12		G-9	P-11		
12DV7	F	50	12	G-9	G-7	P-6	1000**	G-7
" *	F	95	12	G-9	G-2	P-11		
" *	F	95	12	G-9	G-3	P-11		
12DV8	F	40	12		G-3	P-6/7	8500	G-3
" *	F	45	12		G-1	P-11		
" *	F	45	12		G-9	P-11		
12DW4*	F	25	16	G-2/7	G-2/7	P-11		

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	G _m – E _m	NOTES	
						Rated G _m Micromhos	GAS
12DW5	F	40	12	G-3/6	G-1/3/6/9 P-11		G-3/6
12DW7	F	90	12	G-9	G-2 P-1	3000**	G-2
"	F	90	12	G-9	G-7 P-6	750**	G-7
12DW8	F	14	12		G-2 P-1	6000	G-2
"	F	48	12		G-7 P-6	2700**	G-7
" *	F	30	12		G-9 P-11		
12DY7	F	100	12	G-9	G-7 P-6	700**	G-7
"	F	85	12	G-9	G-2 P-1	2200**	G-2
12DY8	F	24	12		G-1 P-3/6	6000	G-1
"	F	62	12		G-9 P-8	2000**	G-9
12DZ6	F	60	8		G-1 P-5/6	3800**	G-1
12DZ7	F	27	4		G-5 P-4/6	9000	G-5
"	F	27	4		G-1 P-3/4	9000	G-1
12DZ8	F	95	12		G-1 P-9	1400**	G-1
"	F	17	12		G-3 P-6/7	7500	G-3
12E13	D	45	4		G-5/11 P-3/4	11,000	G-5
12EA6	F	50	8		G-1 P-5/6	3800**	G-1
12EC8	F	12	12		G-1 P-2	4700	G-1
"	F	25	12		G-9 P-6/7	2000	G-9
12ED5	F	17	8	G-2/5	G-2/5 P-6/7	8000	G-2/5
12EG6	F	25	8		G-1 P-5/6	1400**	G-1
12EH5	F	20	8	G-2/5	G-2/5/11 P-6/7	14,000	G-2/5
12EK6	F	42	8		G-1 P-5/6	4200**	G-1
12EL6	F	95	8		G-1 P-2	1200**	G-1
" *	F	95	8		G-5 P-11		
" *	F	95	8		G-6 P-11		
12EM5	F	20	12	G-3/6	G-3/6/11 P-1/9	5000	G-3/6
12EM6	F	13	12	G-7/8	G-1 P-3/6	5000	G-1
" *	F	80	12	G-7/8	G-9 P-11		
12EN6	F	53	4		G-5/11 P-3/4	8000	G-5
12EQ7	F	87	12		G-2 P-6/7	3800**	G-2
" *	F	80	12		G-8 P-11		
12EZ6	F	34	8		G-1 P-5/6	2700**	G-1
12F5	F	100	4		G-10 P-4	1000**	G-10
12F8	F	35	12		G-8 P-2/3	1000**	G-8
" *	F	65	12		G-1 P-11		
" *	F	65	12		G-6 P-11		
12FK6	F	30	8		G-1 P-7	1200**	G-1
" *	F	85	8		G-5 P-11		
" *	F	85	8		G-6 P-11		
12FM6	F	26	8		G-1 P-7	1200**	G-1
" *	F	80	8		G-5 P-11		
" *	F	80	8		G-6 P-11		
12FQ7	F	90	12		G-2 P-1	2600**	G-2
"	F	90	12		G-7 P-6	2600**	G-7
12FQ8	F	100	12		G-2 P-1/3	1000**	G-2
"	F	100	12		G-7 P-6/8	1000**	G-7
12FR8	F	20	12		G-3/6/7/12 P-11		G-3
"	F	25	12		G-1 P-9	1200**	G-1
" *	F	80	12		G-8 P-11		
12FV7	F	40	12	G-9	G-2 P-1	3000**	G-2
"	F	40	12	G-9	G-7 P-6	3000**	G-7
12FX5	F	53	8	G-2/5	G-2/5/11 P-6/7	13,500	G-2/5
12FX8	F	70	12		G-2 P-1/3	3000**	G-2
"	F	25	12		G-6/8/12 P-11		
12G4	F	90	8	G-1/5	G-6 P-1/5	3000**	G-6

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G _m – E _m		NOTES	
							Rated G _m Micromhos	GAS
12G11	F	27	14		G-3	P-6/7	1000**	G-3
"	F	23	14		G-8	P-1/10	7500	G-8
12GA6	F	45	8		G-1	P-5/6	2400**	G-1
12GB3	F	20	4		G-5/11	P-4/10	7100	G-5
12GB5	F	16	15	G-1/2/3/6/7/8	G-1/2/11	P-6/7/10	6000	G-1/2
12GB7	F	20	4		G-5/11	P-4/10	6000	G-5
12GC5	F	35	12	G-1/3/6/8	G-3/6/11	P-1/8/9	8000	G-3/6
12GC6	F	25	4	G-4/8	G-5/11	P-4/8/10	6600	G-5
12GE5	F	34	14	G-1/3/4/10	G-1/3/11	P-2/7	6600	G-1/3
12GJ5	F	25	16	G-1/2/6/7	G-2/6	P-1/7/10	7100	G-2/6
12GK17*	F	30	3		G-5	P-11		
12GN6	F	35	8		G-1	P-5/6	4300**	G-1
" *	F	25	8		G-7	P-11		
12GN7	F	27	12	G-3/6/9	G-2	P-7/8	16,000	G-2
12CT5	F	34	16	G-1/2/6/7	G-2/6/11	P-1/7/9	7000	G-2/6
12GV5	F	20	14	G-1/3/4/5/6/9/10	G-5/8/11	P-1/3/7	5000	G-5/9
12GW6	F	20	4		G-5/11	P-4/10	7100	G-5
12H6*	F	35	4		G-3	P-11		
" *	F	35	4		G-5	P-11		
12HB25	F	27	15	G-1/2/3/6/7/8	G-1/2/11	P-6/7/10	10,000	G-1/2
12HE7	F	12	14	G-10	G-2	P-11		
" *	F	20	14	G-10	G-9	P-1/5	8800	G-9
12HG7	F	18	12	G-3/6/9	G-2	P-7/8	2200	G-2
12HL5	F	42	12	G-1/2	G-1/2/11	P-7/9	17,000	G-1/2
12HL7	F	24	12	G-3/6/9	G-2	P-7/8	21,000	G-2
12HU8	F	56	12		G-2/11	P-1/3		
"	F	56	12		G-6/11	P-8/9	9000	G-6
12J5	F	90	4		G-5	P-3	3000**	G-5
12J7	F	70	4		G-10	P-3/4	1200**	G-10
12J8	F	23	12		G-1	P-3/6	5500	G-1
" *	F	25	12		G-8	P-11		
" *	F	25	12		G-9	P-11		
12JB6	F	20	16	G-1/2/6/7	G-2/6/11	P-1/7/10	7100	G-2/6
12JF5	E	13	14	G-1/3/4/10	G-1/3	P-2/10/11/13	7500	G-1/3
12JM6	F	32	14	G-4/10	G-5/11	P-3	7300	G-5
12JN6	F	24	14	G-4/10	G-1/11	P-3/7	7300	G-1
12JN8	F	27	12		G-1	P-2	8500	G-1
"	F	24	12		G-9	P-6/7	7500	G-9
12JQ6	F	60	12	G-2/3/7/8	G-7/8	P-1/2/3	4200**	G-7/8
" *	F	60	12	G-2/3/7/8	G-6	P-11		
12JS6	F	66	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	11,300	G-5/9
12JT6	F	25	16	G-1/7	G-2/11	P-1/7/9	7100	G-2
12JZ8	F	30	14	G-6/7	G-6/7/11	P-4/8	7000	G-6/7
"	F	70	14	G-6/7	G-10	P-2	1900**	G-10
12K5	F	60	8	G-5/6	G-5/6	P-2/7	15,000	G-5/6
12K7	F	78	4		G-10	P-3/4	1650**	G-10
12K8	F	50	4		G-5	P-3/4	1200**	G-5
12KL8	F	87	12		G-2	P-6/7	4000**	G-2
" *	F	30	12		G-13	P-8		
12L6	F	35	4		G-3/4/5	P-11		
12MD8	F	69	16		G-6	P-3	3100**	G-6
"	F	69	16		G-8	P-2	3100**	G-8
"	F	69	16		G-9	P-1	3100**	G-9
12MX8	F	35	16		G-2/11	P-6/7	8400	G-2
"	F	100	16		G-9	P-8	1000**	G-9
12P1	F	80	8		G-1	P-5/6	4000**	G-1

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	GAS
12P2	F	85	8		G-1	P-5/6	4000**	G-1
12Q7	F	95	4		G-10	P-3	1000**	G-10
" *	F	70	4		G-4	P-11		
" *	F	70	4		G-5	P-11		
12R5	F	25	8	G-2/5	G-2/5/11	P-6/7	7000	G-2/5
12RK19	F	35	12	All pins	G-2/9	P-11		
12RLL3	F	20	12	G-9	G-2	P-1	6100	G-2
"	F	20	12	G-9	G-7	P-6	6100	G-7
12RLL5	F	90	12		G-2	P-1	2600**	G-2
"	F	90	12		G-7	P-6	2600**	G-7
12S8	F	100	4		G-10	P-6	600**	G-10
" *	F	65	4		G-1	P-11		
" *	F	65	4		G-3	P-11		
" *	F	65	4		G-4	P-11		
12SA7	F	18	4		G-5	P-3/4	4500	G-5
12SC7	F	100	3		G-3	P-2	1325**	G-3
"	F	100	3		G-4	P-5	1325**	G-4
12SF5	F	100	3		G-3	P-5	750**	G-3
12SF7	F	80	3		G-2	P-4/6	2000**	G-2
" *	F	75	3		G-5	P-11		
12SG7	F	80	4	G-3/5	G-4	P-6/8	4000**	G-4
12SH7	F	85	4		G-4	P-6/8	4000**	G-4
12SJ7	F	55	4		G-4	P-6/8	1600**	G-4
12SK7	F	70	4		G-4	P-6/8	2000**	G-4
12SL7	F	95	3		G-1	P-2	800**	G-1
"	F	95	3		G-4	P-5	800**	G-4
12SN7	F	95	3		G-1	P-2	3000**	G-1
"	F	95	3		G-4	P-5	3000**	G-4
12SQ7	F	100	3		G-2	P-6	600**	G-2
" *	F	80	3		G-4	P-11		
" *	F	80	3		G-5	P-11		
12SR7	F	60	3		G-2	P-6	1100**	G-2
" *	F	80	3		G-4	P-11		
" *	F	80	3		G-5	P-11		
12SX7	F	90	3		G-1	P-2	3000**	G-1
"	F	90	3		G-4	P-5	3000**	G-4
12T10	F	38	14		G-3	P-6/7	1000**	G-3
"	F	50	14		G-8/11	P-1/10	6500	G-8
12T21	F	90	12	G-9	G-2	P-1	3300**	G-2
"	F	90	12	G-9	G-7	P-6	3300**	G-7
12U7	F	60	12	G-9	G-2	P-1	1600**	G-2
"	F	60	12	G-9	G-7	P-6	1600**	G-7
12V6	F	30	4		G-5/11	P-3/4	5000	G-5
12W6	F	30	4		G-5/11	P-3/4	8000	G-5
12X4*	F	30	8		G-1	P-11		
" *	F	30	8		G-6	P-11		
13BD11	F	38	14		G-3	P-4	4400	G-3
"	F	50	14		G-6	P-8	5500	G-6
"	F	40	14		G-1	P-8/10	10,400	G-1
13CM5	F	53	4	G-1/3/4/8	G-5	P-1/4/10		G-5
13CW5	F	42	1		G-4	P-2	9000	G-4
13CW9	F	85	12		G-1	P-3		G-1
13D2	D	95	3		G-1	P-2	3000**	G-1
"	D	95	3		G-4	P-5	3000**	G-4
13DE7	F	17	12	G-2/3	G-2/3	P-1	6500	G-2/3
"	F	75	12	G-2/3	G-7	P-6	2000**	G-7

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	G A S
13DR7	F	15	12	G-2/3	G-2/3	P-1	6000	G-2/3
"	F	85	12	G-2/3	G-7	P-6	1000**	G-7
13EM7	F	17	3		G-1	P-2	7200	G-1
"	F	90	3		G-4	P-5	1000**	G-4
13FD7	F	20	12	G-2/3	G-2/3	P-1	7500	G-2/3
"	F	90	12	G-2/3	G-7	P-6	1000**	G-7
13FM7	F	23	14	G-3/8	G-3/8/11	P-5	6000	G-3/8
"	F	100	14	G-3/8	G-10	P-1	1500**	G-10
13FR7	F	44	12	G-2/3	G-2/3	P-1	7200	G-2/3
"	F	90	12	G-2/3	G-7	P-6	1600**	G-7
13GB5	F	16	15	G-1/2/3/6/7/8	G-1/2/11	P-6/7/10	6000	G-1/2
13GF7	F	18	16		G-2/11	P-6	7200	G-2
"	F	90	16		G-9	P-8	1000**	G-9
13J10	F	54	14		G-1/11	P-2/9	6500	G-1
"	F	60	14		P-4/5/6/7/13			
13JZ3	F	30	14	G-6/7	G-6/7/11	P-4/8	7000	G-6/7
"	F	70	14	G-6/7	G-10	P-2	1900**	G-10
13V10	F	37	14		G-3	P-6/7	1000**	G-3
"	F	18	14		G-8	P-1/10	6400	G-8
13Z10	F	54	14		G-1/11	P-2/9	6500	G-1
"	F	60	14		P-4/5/6/7/13			
14A4	F	80	17		G-6	P-2	2600**	G-6
14A5	F	25	17		G-6/11	P-2/3	5800	G-6
14A7	F	75	17		G-6	P-2/3	2200**	G-6
14AF7	F	70	17		G-4	P-3	2000**	G-4
"	F	70	17		G-5	P-6	2000**	G-5
14B6	F	100	17	G-4/7	G-3	P-2	600**	G-3
" *	F	70	17	G-4/7	G-5	P-11		
" *	F	70	17	G-4/7	G-6	P-11		
14B8	F	30	17		G-4	P-2/3/5	1100**	G-4
14BF11	F	60	14		G-3	P-6/7	2000**	G-3
"	F	15	14		G-8	P-1/10	8000	G-8
14BL11	F	65	14		G-1	P-2/10	19,000	G-1
"	F	52	14		G-5	P-7	5500	G-5
"	F	20	14		G-3	P-9	5300	G-3
14BQ11	F	52	14		G-5	P-2/3	13,000	G-5
"	F	42	14		G-10	P-8/9	10,500	G-10
14BR11	F	16	14		G-2	P-1/3	10,400	G-2
"	F	89	14		G-8	P-6	3000**	G-8
"	F	48	14		G-10	P-9	5500	G-10
14C5	F	95	17		G-6/11	P-2/3	3700**	G-6
14C7	F	70	17		G-6	P-2/3	2200**	G-6
14E6	F	75	17	G-4/7	G-3	P-2	1500**	G-3
" *	F	75	17		G-5	P-11		
" *	F	75	17		G-6	P-11		
14E7	F	90	17		G-6	P-2/5	1600**	G-6
" *	F	75	17		G-3	P-11		
" *	F	75	17		G-4	P-11		
14F7	F	100	17		G-4	P-3	1000**	G-4
"	F	100	17		G-5	P-6	1000**	G-5
14GT8	F	100	12		G-8	P-9	800**	G-8
" *	F	25	12		G-2	P-11		
" *	F	25	12		G-6	P-11		
14GW8	F	100	12		G-1	P-9	600**	G-1
"	F	20	12		G-8	P-3/6	10,000	G-8
14H7	F	80	17		G-6	P-2/3	4000**	G-6

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	G m — Em	NOTES	
						Rated Gm Micromhos	G A S
14J7	F	80	17		G-4 P-3	1400**	G-4
"	F	26	17		G-6 P-2/5	1000**	G-6
14JG8	F	95	12		G-8 P-9	1100**	G-8
" *	F	20	12		G-2 P-11		
" *	F	20	12		G-6 P-11		
14N7	F	87	17		G-4 P-3	2800**	G-4
"	F	87	17		G-5 P-6	2800**	G-5
14Q7	F	20	17		G-4 P-2/3	5000	G-4
14R7	F	90	17		G-6 P-2/5	3000**	G-6
" *	F	80	17		G-3 P-11		
" *	F	80	17		G-4 P-11		
14S7	F	85	17		G-4 P-3	1200**	G-4
"	F	22	17		G-6 P-2/5	1000**	G-6
14V7	F	13	17		G-6 P-2/3	5800	G-6
14W7	F	15	17	G-4/7	G-6 P-2/3	5800	G-6
14X7	F	100	17		G-3 P-2	600**	G-3
" *	F	25	17		G-5 P-11		
" *	F	25	17		G-6 P-11		
14Y4*	F	25	17		G-3 P-11		
" *	F	25	17		G-6 P-11		
15AF11	G	90	14		G-1/11 P-2/10	10,000	G-1
"	G	40	14		G-6 P-8	5500	G-6
"	G	35	14		G-3 P-4	4400	G-3
15BD11	G	20	14		G-1 P-2/10	10,400	G-1
"	G	38	14		G-3 P-4	4400	G-3
"	G	50	14		G-6 P-8	5500	G-6
15CW5	G	30	12	G-1/2/6/7/8/9	G-1/2/11 P-6/7/8/9	10,000	G-1/2
15DQ8	G	47	12		G-1 P-2	4000	G-1
"	G	23	12		G-8 P-6/9	10,400	G-8
15EA7	G	90	3		G-4 P-5	1500**	G-4
"	G	20	3		G-1/11 P-2	6500	G-1
15EW6	G	35	8		G-1 P-5/6	11,000	G-1
15EW7	G	20	12	G-2/3	G-2/3/11 P-1	7500	G-2/3
"	G	80	12	G-2/3	G-7 P-6	2000**	G-7
15FM7	G	23	14	G-3/8	G-3/8/11 P-5	6000	G-3/8
"	G	100	14	G-3/8	G-10 P-1	1500**	G-10
15FO7	G	85	12		G-2 P-5		G-2
15FY7	G	25	14		G-3/11 P-5	7500	G-3
"	G	90	14		G-10 P-1	1000**	G-10
15HA6	G	30	12	G-3/6/8/9	G-2 P-6/7/8	20,000	G-2
15HB6	G	28	12	G-3/6/8/9	G-2 P-6/7/8	20,000	G-2
15HG8	G	15	12	G-1/3	G-6 P-7	7000	G-6
"	G	23	12	G-1/3	G-2 P-8/9	10,000	G-2
15KY8	G	35	16		G-2/11 P-6/7	8400	G-2
"	G	100	16		G-9 P-8	1000**	G-9
15LE8	G	6	12		G-9 P-6/8	5800	G-9
"	G	5	12		G-9 P-1/8	5800	G-9
15MF8	G	95	14	G-6/7	G-6/7/11 P-4/8	4100**	G-6/7
"	G	92	14	G-6/7	G-10 P-2	4100**	G-10
15MX8	G	35	16		G-2/11 P-6/7	8400	G-2
"	G	100	16		G-9 P-8	1000**	G-9
16A5	G	30	12		G-2/11 P-7/9	10,000	G-2
16A8	G	70	12		G-1 P-9	1000**	G-1
"	G	11	12		G-3 P-6/7	5000	G-3

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	G A S
16AK9	F	40	14	G-6	P-8/13	P-5/9	16,400	G-8
"	F	40	14	G-6	G-10	P-11	3900**	G-10
"	F	60	14	G-6	G-3	P-2	8500	G-3
16AQ3*	G	35	12	G-1/2/3/6/7/ 8/9	G-1/2/3/6/7/8/9	P-11		
16BQ11	G	29	14		G-5	P-2/3	13,000	G-5
"	G	30	14		G-10	P-8/9	15,000	G-10
16BX11	G	28	14	May glow on 10	G-2	P-1/3	11,300	G-2
"	G	22	14	May glow on 10	G-5	P-6	6800	G-5
"	G	21	14	May glow on 10	G-8	P-7	6200	G-8
16CB28	G	20	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3/4/7/10	7000	G-5/9
16GK6	G	18	12	G-3/9	G-2	P-7/8	11,000	G-2
16GY5	G	20	14	G-1/3/4/5/7/ 9/10	G-5/9/11	P-1/3/7	6500	G-5/9
16HR5	G	23	14	G-1/3/4/10	G-1/3/11	P-2/7	9100	G-1/3
16KAC	G	34	14	G-1/4	G-5/11	P-3	9100	G-5
16LD6	G	21	12	G-3/6/8/9	G-2	P-6/7/8	20,000	G-2
16LU8	G	30	14	G-6/7	G-6/7/11	P-4/8	9300	G-6/7
"	G	85	14	G-6/7	G-10	P-5	3600**	G-10
16MY8	G	30	14	G-6/7	G-10	P-4/8	9300	G-6/7
"	G	85	14	G-6/7	G-6/7/11	P-2	3600**	G-10
16Y9	G	23	13		G-1	P-3/4	8500	G-1
"	G	15	13		G-8	P-9/10		G-8
17A8	G	18	12		G-2	P-3/6	6500	G-2
"	G	15	12		G-9	P-1	5500	G-9
17AB10	G	25	14		G-1/11	P-2/9	8600	G-1
"	G	55	14		P-4/5/6/7/13			
17AU5	G	27	4		G-1/11	P-5/8	5600	G-1
17AV5	G	40	4		G-1/5/8	P-11		G-1
17AX3*	G	25	14	G-4/10	G-4/10	P-11		
17AX4*	G	30	3		G-5	P-11		
17AY3*	G	25	16	G-1/2/3/6/7/ 8/9	G-2/7	P-11		
17BB14	G	15	15	G-1/2/3/6/7/8	G-1/2	P-6/7/10	7500	G-1/2
17BD11	G	20	14		G-1	P-2/10	10,400	G-1
"	G	38	14		G-3	P-4	4400	G-3
"	G	50	14		G-6	P-8	5500	G-6
17BE3*	G	25	14	G-4/10	G-4/10	P-11		
17BF11	G	60	14		G-3	P-6/7	2000**	G-3
"	G	15	14		G-8	P-1/10	8000	G-8
17BH3*	G	25	16	G-2/7	G-2/7	P-11		
17BQ6	G	25	4		G-5/11	P-4/10	6000	G-5
17BR3*	G	35	12	G-2/9	G-2/9	P-11		
17BS3*	G	41	16	G-2/7	G-2/7	P-11		
17BW3*	G	24	14	G-4/10	G-4/10	P-11		
17BY7	G	17	12	G-3/6/9	G-2/11	P-7/8	11,000	G-2
17BZ3*	G	14	14	G-4/10	G-4/10	P-11		
17C5	G	25	8	G-2/5	G-2/5/11	P-6/7	7500	G-2/5
17C8	G	27	12		G-2	P-1/6	7000	G-2
" *	G	75	12		G-7	P-11		
" *	G	75	12		G-8	P-11		
17C9	G	15	12		G-1	P-2/3	8000	G-1
"	G	15	12		G-7	P-8/9	8000	G-7
17CA5	G	13	8	G-2/5	G-2/5	P-6/7	8000	G-2/5
17CK3*	G	17	16	G-2/7	G-2/7	P-11		
17CL3*	G	25	16	G-2/7	G-2/7	P-11		

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	G A S
17CT3*	G	25	12	G-2/6	G-2/6	P-11		
17CU5	G	28	8	G-2/5	G-2/5/11	P-6/7	7500	G-2/5
17D4*	G	25	3		G-5	P-11		
17DE4*	G	25	3		G-5	P-11		
17DG6	G	28	4		G-5/11	P-3/4	8000	G-5
17DM4*	G	25	3		G-5	P-11		
17DQ4*	G	25	3		G-5	P-11		
17DQ6	G	20	4		G-5/11	P-4/10	6000	G-5
17DW4*	G	25	16	G-2/7	G-2/7	P-11		
17EW8	G	25	12		G-2	P-1	5800	G-2
"	G	25	12		G-7	P-6	5800	G-7
17FY7	G	25	14		G-3/11	P-5	7500	G-3
"	G	90	14		G-10	P-1	1000**	G-10
17GE5	G	34	14	G-1/3/4/10	G-1/3/11	P-2/7	6600	G-1/3
17GJ5	G	25	16	G-1/2/6/7	G-2/6/11	P-1/7/10	7100	G-2/6
17GT5	G	34	16	G-1/2/6/7	G-2/6/11	P-1/7/9	7000	G-2/6
17GT6	G	85	12		G-3	P-5		G-3
17GV5	G	35	14	G-1/3/4/5/7/9/10	G-1/3/5/7/9	P-11		G-5/9
17GW6	G	20	4		G-5/11	P-4/10	7100	G-5
17GY5	G	20	14	G-1/3/4/5/7/9/10	G-5/9/11	P-1/3/7	6500	G-5/9
17H3*	G	18	12	G-3/8	G-3/8	P-11		
17HB25	G	27	15	G-1/2/3/6/7/8	G-1/2/11	P-6/7/10	10,000	G-1/2
17JB6	G	22	16	G-1/2/6/7	G-2/6/11	P-1/7/10	7100	G-2/6
17JF6	G	30	16	G-1/2/6/7	G-2/6/11	P-1/7/10	10,000	G-2/6
17JG6	G	20	16	G-1/7	G-2	P-1/7/9	10,000	G-2
17JK8	G	26	12		G-7	P-6	6800	G-7
"	G	45	12		G-2	P-1	13,000	G-2
17JM6	G	32	14	G-4/10	G-5/11	P-3	7300	G-5
17JN6	G	24	14	G-4/10	G-1/11	P-3/7	7300	G-1
17JQ6	G	60	12	G-2/3/7/8	G-7/8	P-1/2/3	4200**	G-7/8
" *	G	60	12	G-2/3/7/8	G-6	P-11		
17JR6	G	24	16	G-1/7	G-2	P-1/7/9	10,000	G-2
17JS6	G	66	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	11,300	G-5
17JT6	G	25	16	G-1/7	G-2	P-1/7/9	7100	G-2
17JZ8	G	30	14	G-6/7	G-6/7/11	P-4/8	7000	G-6/7
"	G	70	14	G-6/7	G-10	P-2	1900**	G-10
17KV6	G	25	16	G-1/7	G-2	P-1/7/9	9500	G-2
17L6	G	35	4		G-3/4/5	P-11		G-5
17LD8	G	80	16		G-9	P-8	1900**	G-9
"	G	16	16		G-2	P-6/7	7100	G-2
17N8	G	27	12		G-2	P-1/6	7000	G-2
" *	G	75	12		G-7	P-11		
" *	G	75	12		G-8	P-11		
17R5	G	20	8	G-2/5	G-2/5/11	P-6/7	7000	G-2/5
17RHH2	G	25	12		G-2	P-1	5800	G-2
"	G	25	12		G-7	P-6	5800	G-7
17RK19*	G	35	12	G-2/9	G-2/9	P-11		
17W6	G	30	4		G-5/11	P-3/4	8000	G-5
17X10	G	76	14		G-7/13	P-4/6		G-7
"	G	26	14		G-1	P-2/9	8600	G-1
17Y9	G	23	13		G-1	P-3/4	8500	G-1
"	G	15	13		G-8	P-9/10		G-8
17Z3*	G	30	12	G-2/9	G-2/9	P-11		
18A5	G	35	4		G-1/5/8	P-11		G-1

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m — E m		NOTES	
							Rated Gm Micromhos	G A S
18AJ10	G	50	14		G-3	P-6/7	2400**	G-3
	G	15	14		G-8	P-1/10	5600	G-8
18AK5	G	15	8	G-2/7	G-1	P-5/6	5000	G-1
18AQ5	G	90	8	G-1/7	G-1/7	P-5/6	3700**	G-1/7
18DZ8	G	95	12		G-1	P-9	1400**	G-1
"	G	17	12		G-3	P-6/7	7500	G-3
18FW6	G	85	8		G-1	P-5/6	4100**	G-1
18FX6	G	25	8		G-1	P-5/6	7000	G-1
18FY6	G	100	8		G-1	P-7	1000**	G-1
" *	G	100	8		G-5	P-11		
" *	G	100	8		G-6	P-11		
18GB5	G	16	15	G-1/2/3/6/7/8	G-1/2/11	P-6/7/10	6000	G-1/2
18GD6	G	90	8		G-1	P-5/6	4300**	G-1
18GV8	G	50	12		G-2	P-1	6500	G-2
"	G	22	12		G-9/11	P-6/7	7500	G-9
18HB8	G	16	12		G-9	P-6/7	6200	G-9
"	G	100	12		G-1	P-3	3000**	G-1
18J6	G	26	8		G-5	P-2	5300	G-5
"	G	26	8		G-6	P-1	5300	G-6
18RAL1	G	15	12	G-2/3	G-2/3	P-1	7500	G-2/3
"	G	45	12	G-2/3	G-7	P-6	1000**	G-7
19A3	F	30	8	G-6	G-13	P-5		
19AJ8	G	45	12		G-9	P-8	1200**	G-9
"	G	21	12		G-2	P-1/6	6000	G-2
19AQ5	G	90	8	G-1/7	G-1/7	P-5/6	3700**	G-1/7
19AU4*	G	25	3		G-5	P-11		
19BG6	G	30	4		G-5/11	P-8/10	6000	G-5
19BX6	G	12	12	G-1/3	G-2	P-7/8	5500	G-2
19C8	G	100	12		G-8	P-9	850**	G-8
" *	G	20	12		G-1	P-11		
" *	G	20	12		G-2	P-11		
" *	G	20	12		G-6	P-11		
19CG3	G	20	14	G-4/10	G-4/10	P-11		
19CL8	G	30	12		G-1	P-2	8000**	G-1
"	G	15	12		G-9	P-6/7	6000	G-9
19D8	G	45	12		G-9	P-8	1200**	G-9
"	G	21	12		G-2	P-1/6	6000	G-2
19DC8	G	72	12		G-2	P-1/6	4000**	G-2
" *	G	50	12		G-7	P-11		
" *	G	50	12		G-8	P-11		
19DE7	G	17	12	G-2/3	G-2/3	P-1	6500	G-2/3
"	G	75	12	G-2/3	G-7	P-6	2000**	G-7
19DK3	G	50	16	G-2/7	G-2/7	P-11		
19DQ3	G	39	14	G-4/10	G-4/10	P-11		
19EA8	G	18	12		G-2	P-3/6	6400	G-2
"	G	25	12		G-9	P-1	8000	G-9
19EZ8	G	30	12		G-2	P-3	4200	G-2
"	G	40	12		G-6/7/12	P-11		G-7
"	G	40	12		G-8/9/12	P-11		G-9
19FL8	G	72	12		G-2	P-1/6	4000**	G-2
" *	G	50	12		G-8	P-11		
" *	G	50	12		G-7	P-11		
19FX5	G	53	8	G-2/5	G-2/5/11	P-6/7	13,000	G-2/5
19GK6	G	18	12	G-3/9	G-2	P-7/8	11,300	G-2

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	G _m — E _m	NOTES	
						Rated G _m Micromhos	G A S
19GQ7*	G	25	12		G-2 P-11		
" *	G	25	12		G-6 P-11		
" *	G	25	12		G-8 P-11		
19HR6	G	25	8		G-1 P-5/6	8500	G-1
19HS6	G	29	8		G-1 P-5/6	9500	G-1
19HV8	G	100	12		G-1 P-2	1000**	G-1
"	G	17	12		G-9 P-6/7	6500	G-9
19J6	G	26	8		G-5 P-2	5300	G-5
"	G	26	8		G-6 P-1	5300	G-6
19JC6	G	35	12	G-1/3	G-2 P-7/8	15,000	G-2
19JN8	G	27	12		G-1 P-2	8500	G-1
"	G	25	12		G-9 P-6/7	7500	G-9
19KF6	G	40	16	G-1/7	G-1/7 P-6/9		G-1/7
19KG8	G	22	12		G-9 P-6/7	7500	G-9
"	G	35	12		G-2 P-1	8500	G-2
19MR9	G	16	8		G-1 P-5/6	6000	G-1
19Q9	G	34	12		G-8 P-9	8000	G-8
"	G	15	12		G-1 P-2/3	6500	G-1
19T8	G	95	12		G-8 P-9	1000	G-8
" *	G	25	12		G-1 P-11		
" *	G	25	12		G-2 P-11		
" *	G	25	12		G-6 P-11		
19U3*	G	20	12		G-9 P-11		
19V8	G	95	12		G-6 P-1	1000**	G-6
" *	G	25	12		G-2 P-11		
" *	G	25	12		G-7 P-11		
" *	G	70	12		G-9 P-11		
19W3*	G	20	12		G-9 P-11		
19X3*	G	20	12		G-9 P-11		
19X8	G	27	12		G-2 P-3	6500	G-2
"	G	20	12		G-7 P-8/9	5500	G-7
19Y3*	G	23	12	G-2/7/9	G-11		
20AQ3*	G	35	12	G-1/2/3/6/7/8/9	G-1/2/3/6/7/8/9 P-11		
"				8/9			
20D4	D	45	12		G-9 P-8	1200**	G-9
"	D	21	12		G-2 P-1/6	6000**	G-2
20EQ7	G	90	12		G-2 P-6/7	3800**	G-2
" *	G	80	12		G-8 P-11		
20EW7	G	20	12	G-2/3	G-2/3/11 P-1	7500	G-2/3
"	G	80	12	G-2/3	G-7 P-6	2000**	G-7
20EZ7	G	100	10	G-3	G-5 P-6	1000**	G-5
"	G	100	10	G-3	G-8 P-7	900**	G-8
20LF6	G	70	14	G-1/3/4/5/9/10	G-5/9/11 P-1/3	3300**	G-5/9
21A6	G	26	12	G-1/6/7/8/9	G-2/11 P-7/8/10	7000	G-2
21AK6	G	80	8		G-1 P-5/6	2500**	G-1
21EX6	G	25	4		G-5/11 P-8/10	7000	G-5
21GV5	G	20	14	G-1/3/4/5/7/9/10	G-5/9/11 P-1/3/7	5000	G-5/9
"				9/10			
21GY5	G	34	14	G-1/3/4/5/7/9/10	G-1/3/5/7/9 P-11		G-5/9
"				9/10			
21HB3*	G	30	12		G-1 P-11		
21HB5	G	23	14	G-1/3/4/10	G-1/3/11 P-2/7	9100	G-1/3
21HD5	G	32	14	G-1/3/4/5/9/10	G-1/3/11 P-5/7/9	10,000	G-1/3
"				10			
21HJ5	G	30	14	G-1/3/4/5/9/10	G-1/3/11 P-5/7/9	10,000	G-1/3
"				10			

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	G A S
21JS6	G	66	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	11,300	G-5/9
21JV6	G	25	14	G-4/10	G-1/11	P-3/7	9100	G-1
21JZ6	G	33	14	G-4/10	G-5/11	P-1/3	9000	G-5
21KA6	G	34	14	G-1/4	G-5/11	P-3	9100	G-5
21KQ6	G	45	15	G-1/2/3/6/7/8	G-1/8	P-3/6/10	17,000	G-1/8
21LG6	G	26	14	G-1/3/4/5/9/10	G-5/9	P-1/3/13	6500	G-5/9
21LR8	G	30	16		G-2/11	P-6/7	9300	G-2
	G	84	16		G-9	P-8	3600**	G-9
21LU8	G	30	14	G-6/7	G-6/7/11	P-4/8	9300	G-6/7
	G	85	14	G-6/7	G-10	P-2	3600**	G-10
21MY8	G	30	14	G-6/7	G-10	P-4/8	9300	G-10
	G	85	14	G-6/7	G-6/7/11	P-2	3600**	G-6/7
22BH3*	G	30	16	G-2/7	G-2/7	P-11		
22BW3*	G	24	14	G-4/10	G-4/10	P-11		
22EW6	G	87	12	G-6	G-2	P-7/8	3700**	G-2
22DE4*	G	25	3		G-5	P-11		
22JF6	G	30	16	G-1/2/6/7	G-2/6/11	P-1/7/10	10,000	G-2/6
22JG6	G	20	16	G-1/7	G-2	P-1/7/9	10,000	G-2
22JR6	G	24	16	G-1/7	G-2	P-1/7/9	10,000	G-2
22JU6	G	18	16	G-1/2/6/7	G-2/6/11	P-1/7/10	7000	G-2/6
22KM6	G	31	16	G-1/2/6/7	G-2/6/11	P-1/7/10	9500	G-2/6
22KV6	G	25	16	G-1/7	G-2	P-1/7/9	9500	G-2
23JS6	G	66	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	11,300	G-5/9
23MB6	G	63	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	14,000	G-5/9
23Z9	G	45	14	G-6	G-8/11	P-5/9	11,700	G-8
	G	67	14	G-6	G-10	P-1	11,000	G-10
	G	67	14	G-6	G-3	P-2	8500	G-3
24AX4*	G	30	3		G-5	P-11		
24BF11	G	60	14		G-3	P-6/7	2000**	G-3
	G	15	14		G-8	P-1/10	8000	G-8
24JE6	G	50	16	G-1/2/6/7	G-2/6/11	P-1/7/10	10,500	G-2/6
24JZ8	G	30	14	G-6/7	G-6/7/11	P-4/8	7000	G-6/7
	G	70	14	G-6/7	G-10	P-2	1900**	G-10
24LQ6	G	60	16	G-1/2/6/7	G-2/6/11	P-1/7/10	10,500	G-2/6
24LZ6	G	35	16	G-1/2/6/7	G-2/6/11	P-1/7/9	7000	G-2/6
25AC5	H	100	4		G-5	P-3	1000**	G-5
25AU4*	H	25	3		G-5	P-11		
25AV5	H	40	4		G-1/5/8	P-11		G-1
25AX4*	H	30	3		G-5	P-11		
25BB14	H	15	15	G-1/2/3/6/7/8	G-1/2	P-6/7/10	7500	G-1/2
25BK5	H	20	12	G-3/7	G-3/7	P-1/8	8500	G-3/7
25BQ6	H	25	4		G-5/11	P-4/10	6000	G-5
25C5	H	25	8	G-2/5	G-2/5/11	P-6/7	7000	G-2/5
25C6	H	34	4		G-3/4/5	P-11		G-5
25CA5	H	14	8	G-2/5	G-2/5	P-6/7	7500	G-2/5
25CD6	H	30	4		G-5/11	P-8/10	7500	G-5/11
25CG3*	H	20	14	G-4/10	G-4/10	P-11		
25CK3*	H	17	16	G-2/7	G-2/7	P-11		
25CM3*	H	25	16	G-2/7	G-2/7	P-11		
25CT3	H	35	12	G-2/6	G-2/6	P-11		
25CU6	H	20	4		G-5/11	P-4/10	5900	G-5
25D4*	H	25	3		G-5	P-11		
25DK3	H	50	16	G-2/7	G-2/7	P-11		
25DK4*	H	20	8	G-6	G-5	P-11		
25DL3*	H	20	16	G-2/7	G-2/7	P-11		
25DN6	H	38	4		G-5/11	P-8/10	9000	G-5

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G _m — E _m		NOTES	
							Rated G _m Micromhos	G A S
25DQ6	H	20	4		G-5/11	P-4/10	6600	G-5
25DT5	H	21	12	G-3/6	G-3/6/11	P-1/9	6200	G-3/6
25E5	H	48	4	G-1/3/4/8	G-5/11	P-1/4/10	14,000	G-5
25EC6	H	14	4		G-5	P-8/10	5000	G-5
25EH5	H	20	8	G-2/5	G-2/5	P-6/7	14,600	G-2/5
25F5	H	22	8	G-2/5	G-2/5/11	P-6/7	6400	G-2/5
25GB6	H	25	4		G-5/11	P-4/10	6000	G-5
25HX5	H	30	15	G-1/2/3/7	G-1/7	P-6/9	14,000	G-1/7
25JQ6	H	60	12	G-2/3/7/8	G-7/8	P-1/2/3	4200**	G-7/8
" *	H	60	12	G-2/3/7/8	G-6	P-11		
25JZ8	H	30	14	G-6/7	G-6/7/11	P-4/8	7000	G-6/7
"	H	70	14	G-6/7	G-10	P-2	1900**	G-10
25L6	H	35	4		G-3/4/5	P-11		G-5
25MP20	H	19	8		G-1	P-5/6	10,500	G-1
25RK19*	H	35	12	G-2/9	G-2/9	P-11		
25W4*	H	25	3		G-5	P-11		
25W6	H	30	4		G-5/11	P-3/4	8000	G-5
25Z6*	H	25	4		G-3	P-11		
" *	H	25	4		G-5	P-11		
26A6	H	13	8		G-1	P-5/6	4000	G-1
26AQ8	H	20	12		G-2	P-1	6000	G-2
"	H	20	12		G-7	P-6	6000	G-7
26BK6	H	100	8		G-1	P-7	1100**	G-1
" *	H	80	8		G-5	P-11		
" *	H	80	8		G-6	P-11		
26C6	H	65	8		G-1	P-7	1100**	G-1
" *	H	85	8		G-5	P-11		
" *	H	85	8		G-6	P-11		
26DQ5	H	55	4	All pins	G-1/5/11	P-4/8/10	10,000	G-1/5
26HU5	G	47	3	G-1/2/5/6	G-1/5	P-3/10	16,000	G-1/5
26LW6	H	40	4	G-1/5/6/8	G-1/5/11	P-3/10	12,000	G-1/5
26LX6	H	41	14	G-1/3/4/5/7/9/10	G-5/9/11	P-1/3	11,300	G-5/9
26P6	H	15	8		G-1	P-5/6	4500	G-1
26Z5W*	H	25	12		G-1	P-11		
" *	H	25	12		G-6	P-11		
27GB5	H	16	15	G-1/2/3/6/7/8	G-1/2/11	P-6/7/10	6000	G-1/2
27KG6	H	56	15	G-1/2/3/6/7/8	G-1/8	P-3/6/10		G-1/8
27LF6	H	70	14	G-1/3/4/5/9/10	G-5/9	P-1/3/13	6500	G-5/9
28AK8	H	95	12		G-8	P-9	1000**	G-8
" *	H	25	12		G-1	P-11		
" *	H	25	12		G-2	P-11		
" *	H	25	12		G-6	P-11		
28D7	H	40	17		G-3/5/7	P-11		G-7
"	H	40	17		G-2/3/4	P-11		G-2
28GB5	H	16	15	G-1/2/3/6/7/8	G-1/2/11	P-6/7/10	6000	G-1/2
28HA6	H	30	12	G-3/6/8/9	G-2	P-6/7/8	20,000	G-2
28HD5	H	32	14	G-1/3/4/5/9/10	G-1/3/11	P-5/7/9	10,000	G-1/3
29GK6	H	18	12	G-3/9	G-2	P-7/8	11,300	G-2
29KQ6	H	45	15	G-1/2/3/6/7/8	G-1/8	P-3/6/10	17,000	G-1/8
29LE6	H	58	15	G-1/2/3/6/7/8	G-1/8	P-2/3/6/7/10/13		G-1/8
30A5	H	16	8	G-2/5	G-2/5/11	P-6/7	5800	G-2/5
30AE3	H	42	12	G-1/2/3/6/7/8/9	G-1/2/3/6/7/8/9	P-11		
"				8/9				

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G _m – E _m		NOTES	
							Rated G _m Micromhos	G A S
30AG11	H	40	14		G-5	P-6	7500	G-5
"	H	40	14		G-8	P-7	7500	G-8
" *	H	25	14		G-3	P-11		
" *	H	25	14		G-10	P-11		
30C18	D	17	12	G-6/8	G-9	P-1	5500	G-9
"	D	37	12	G-6/8	G-7	P-2/3	11,000	G-7
30HD5	H	32	14	G-1/3/4/5/9/10	G-1/3/11	P-5/7/9	10,000	G-1/3
30HJ5	H	30	14	G-1/3/4/5/9/10	G-1/3/11	P-5/7/9	10,000	G-1/3
30JZ8	H	33	14	G-4/10	G-5/11	P-1/3	9000	G-5
30KD6	H	70	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	14,000	G-5/9
30KG6	H	56	15	G-1/2/3/6/7/8	G-1/8	P-3/6/10		G-1/8
30LW6	H	40	4	G-1/5/6/8	G-1/5/11	P-3/10	12,000	G-1/5
30MB6	H	63	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	14,000	G-5/9
30MP23	H	30	8	G-2/5	G-2/5/11	P-6/7	9200	G-2/5
30MP27	H	30	8	G-2/5	G-2/5/11	P-6/7	10,000	G-2/5
30PL12	G	70	12		G-1	P-9	1000**	G-1
"	G	11	12		G-3	P-6/7	5000	G-3
31AL10	H	75	14	G-6	G-3	P-2	2300**	G-3
"	H	16	14	G-6	G-8	P-4/5	7100	G-8
"	H	15	14	G-6	G-1/3	P-9/11	3900**	G-1
31JS6	H	66	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	11,300	G-5/9
31LQ6	H	50	16	G-1/2/6/7	G-2/6/11	P-1/7/10	10,500	G-2/6
31LR8	H	30	16		G-2/11	P-6/7	9300	G-2
"	H	84	16		G-9	P-8	3600**	G-9
31LZ6	H	35	16	G-1/2/6/7	G-2/6/11	P-1/7/9	7000	G-2/6
32A8	I	100	12		G-1	P-9	2000**	G-1
"	I	19	12		G-3/11	P-6/7	7500	G-3
32ET5	I	20	8	G-2/5	G-2/5	P-6/7	5500	G-2/5
32HQ7*	I	20	14	G-7	G-2	P-11		
"	I	13	14	G-7	G-9	P-1/5	4500	G-9
33GT7	I	45	14	G-1/7/9	G-1/9/11	P-4/10	6500	G-1/9
" *	I	25	14	G-1/7/9	G-2	P-11		
33GY7	I	23	14	G-7/9/10	G-9/10/11	P-1/5	6500	G-9/10
" *	I	25	14	G-7/9/10	G-2	P-11		
33HE7*	I	12	5	G-10	G-2	P-11		
"	I	20	5	G-10	G-9	P-1/5	8800	G-9
33JR6	I	24	16	G-1/7	G-2	P-1/7/9	10,000	G-2
33JV6	I	25	14	G-4/10	G-1/11	P-3/7	9100	G-1
34CD3*	I	32	14	G-4/10	G-4/10	P-11		
34CE3*	I	13	14	G-4/10	G-4/10	P-11		
34CM3*	I	25	16	G-2/7	G-2/7	P-11		
34DK3	I	50	16	G-2/7	G-2/7	P-11		
34GD5	I	17	8	G-2/5	G-2/5	P-6/7	5700	G-2/5
34R3*	I	27	12	G-2/9	G-2/9	P-11		
35A5	I	20	17		G-6/11	P-2/3	5800	G-6
35B5	I	22	8	G-1/7	G-1/7/11	P-5/6	7000	G-1/7
35C5	I	20	8	G-2/5	G-2/5/11	P-6/7	5800	G-2/5
35CD6	I	30	4		G-5/11	P-8/10	7500	G-5
35DZ8	I	95	12		G-1	P-9	1400**	G-1
"	I	17	12		G-3	P-6/7	7500	G-3
35EH5	I	20	8	G-2/5	G-2/5	P-6/7	14,600	G-2/5
35GL6	I	22	8	G-6	G-2/11	P-5/7	7500	G-2
35HB8	I	16	12		G-9	P-6/7	6200	G-9
"	I	100	12		G-1	P-3	3000**	G-1
35L6	I	35	4		G-3/4/5	P-11		G-5
35LR6	I	67	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	16,000	G-5/9

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m — Em		NOTES	
							Rated Gm Micromhos	G A S
35R1*	I	20	8	G-6	G-5	P-11		
35W4*	I	20	8	G-6	G-5	P-11		
35Y4*	I	20	17	G-4	G-2	P-11		
35Z3*	I	20	17		G-2	P-11		
35Z5*	I	20	4	G-3	G-5	P-11		
36AM3*	I	20	8	G-6	G-5	P-11		
36KD6	I	70	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	14,000	G-5/9
36MC6	I	63	16	G-1/2/6/7	G-2/6/11	P-1/7/10	14,000	G-2/6
38A3*	I	20	12	G-1/6/9	G-1/6/9	P-11		
38HE7*	I	12	14	G-10	G-2	P-11		
"	I	20	14	G-10	G-9	P-1/5	8800	G-9
38HK7*	I	15	14	G-10	G-2	P-11		
"	I	30	14	G-10	G-9/11	P-1/5	8800	G-9
40KD6	I	70	14	G-1/3/4/5/9/10	G-5/9/11	P-1/3	14,000	G-5/9
40KG6	I	56	15	G-1/2/3/6/7/8	G-1/8	P-3/6/10		G-1/8
40Z5*	I	20	4	G-3	G-5	P-11		
42EC4	J	38	15	G-2/7/8	G-2/7/8	P-11		
42KN6	J	50	14	G-1/3/4/5/7/9/10	G-5/9/11	P-1/3/4/10	16,000	G-5/9
45B5	J	18	12	G-1/2/7/8	G-1/2	P-7/8/9	10,000	G-1/2
45Z3*	J	25	7	G-2/6	G-2/6	P-11		
50A5	J	20	17		G-6/11	P-2/3	5800	G-6
50B5	J	22	8	G-1/7	G-1/7/11	P-5/6	7000	G-1/7
50BK5	J	20	12	G-3/7	G-3/7	P-1/8	8500	G-3/7
50BM8	J	100	12		G-1	P-9	2000**	G-1
"	J	19	12		G-3/11	P-6/7	7500	G-3
50C5	J	20	8	G-2/5	G-2/5/11	P-6/7	5800	G-2/5
50C6	J	50	4		G-3/4/5	P-11		G-5
50CA5	J	13	8	G-2/5	G-2/5	P-6/7	8000	G-2/5
50CD6	J	30	4		G-5/11	P-8/10	7500	G-5
50DC4*	J	25	8	G-6	G-5	P-11		
50EH5	J	20	8	G-2/5	G-2/5	P-6/7	14,600	G-2/5
50F2	J	22	8	G-1/7	G-1/7/11	P-5/6	7000	G-1/7
50FE5	J	33	4		G-5/11	P-3/4	9500	G-5
50FK5	J	17	8	G-2/5	G-2/5	P-6/7	12,000	G-2/5
50GY7	J	23	14	G-7/9/10	G-9/10/11	P-1/5	6500	G-9/10
"*	J	25	14	G-7/9/10	G-2	P-11		
50HC6	J	47	8	G-6	G-2/11	P-5/7	14,000	G-2
50HK6	J	35	8	G-6	G-2/11	P-5/7	7500	G-2
50HN5	J	57	12	G-1/2	G-1/2/11	P-7/9	17,000	G-1/2
50JY6	J	50	4	G-1/4	G-5/11	P-1/4/10	14,000	G-5
50L6	J	35	4		G-3/4/5	P-11		G-5
50X6*	J	25	17		G-3	P-11		
"*	J	25	17		G-6	P-11		
50Y6*	J	25	4		G-3	P-11		
"*	J	25	4		G-5	P-11		
50Y7*	J	25	4	G-6	G-3	P-11		
"*	J	25	4	G-6	G-5	P-11		
53HK7	J	30	14	G-10	G-9/11	P-1/5	8800	G-9
"*	J	15	14	G-10	G-2	P-11		
58HE7*	J	12	14	G-10	G-2	P-11		
"	J	20	14	G-10	G-9	P-1/5	8800	G-9
60FX5	J	53	8	G-2/5	G-2/5/11	P-6/7	13,500	G-2/5
60HL5	J	42	12	G-1/2	G-1/2/11	P-7/9	17,000	G-1/2
63T1	D	75	12		G-2	P-1	1100**	G-2
"	D	17	12		G-9	P-6/8	5000	G-9

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	G A S
70L6	J	65	4		G-5	P-3	1500**	G-5
117L7	K	20	4		G-4/11	P-3/5	5000	G-4
" *	K	20	4		G-6	P-11		
117M7	K	20	4		G-4/11	P-3/5	5000	G-4
" *	K	20	4		G-6	P-11		
117N7	K	65	4		G-4/11	P-3/5	7000	G-4
117P7	K	45	4		G-4/11	P-3/5	5000	G-4
117Z3*	K	25	8	G-1/5	G-1/5	P-11		
117Z4*	K	25	4		G-5	P-11		
117Z6*	K	25	4		G-3	P-11		
" *	K	25	4		G-5	P-11		
171DDP	G	27	12		G-2	P-1/6	7000	G-3
" *	G	75	12		G-7	P-11		
" *	G	75	12		G-8	P-11		
403B	D	15	8	G-2/7	G-1	P-5/6	5000	G-1
421A	D	50	3		G-1/11	P-2	15,000	G-1
"	D	50	3		G-4/11	P-5	15,000	G-4
TJ880	D	30	12	G-1/3/6/9	G-2	P-7/8	11,000	G-2
884	D	55	4		G-3/5	P-11		
1232	D	54	17		G-6	P-2/3	4000**	G-6
1299	A	95	17	G-7	G-6	P-2/3	2400**	G-6
1629	F	0	4			P-3/4/13	OK if target glows	
1852	D	20	4		G-4	P-6/8	9000	G-4
1853	D	17	4		G-4	P-6/8	5000	G-4
2050	D	50	4		G-3/5/6	P-11		G-5
5642*	A	35	12		G-12	P-10/13		
"				Insert leads into pins 4&5 of 9 pin socket - Connect cap to top lead				
5651	L	100	8	All pins		P-1/5/13	OK if target glows	
5654	D	15	8	G-2/7	G-1	P-5/6	5000	G-1
5686	D	85	12	G-1/3/6/8/9	G-2	P-6/7/9	3100**	G-2
5687	F	18	12	G-8	G-2	P-1	8500	G-2
"	F	18	12	G-8	G-7	P-9	8500	G-7
5691	D	95	3		G-1	P-2	800**	G-1
"	D	95	3		G-4	P-5	800**	G-4
5692	D	95	3		G-1	P-2	3000**	G-1
"	D	95	3		G-4	P-5	3000**	G-4
5693	D	55	4		G-4	P-6/8	1600**	G-4
5696	D	60	8	G-5/7	G-1/5/6/7	P-11		G-1
5725	D	57	8		G-1	P-5/6	3200**	G-1
5726*	D	25	8		G-2	P-11		
" *	D	25	8		G-7	P-11		
5727	D	58	8	G-5/7	G-1/5/6/7	P-11		
5749	D	80	8		G-1	P-5/6	4000**	G-1
5750	D	20	8		G-1	P-5/6	7000	G-1
5751	F	100	12	G-9	G-2	P-1	1000**	G-2
"	F	100	12	G-9	G-7	P-6	1000**	G-7
CK5755	F	11	12	G-9	G-3	P-1/11/13	1500**	G-3
"	F	39	12	G-9	G-6	P-8/13	500**	G-6
5763	D	11	12	G-8/9	G-8/9	P-1/6	5000	G-8/9
5814	F	90	12	G-9	G-2	P-1	3000**	G-2
"	F	90	12	G-9	G-7	P-6	3000**	G-7
5844	D	86	8		G-6	P-1	3700**	G-6
"	D	86	8		G-5	P-2	3700**	G-5
5845*	B	80	8	G-7	G-1/5	P-11		
5879	D	60	12		G-1	P-7/8	1200**	G-1

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	G A S
5881	D	95	4		G-5/11	P-3/4	4000**	G-5
5915	D	20	8		G-1	P-5/6	1100**	G-1
5931 *	C	30	6		G-4/12	P-11		
" *	C	30	6		G-6/12	P-11		
5932	D	35	4		G-3/4/5	P-11		G-5
5963	F	84	12	G-9	G-2	P-1	3200**	G-2
"	F	84	12	G-9	G-7	P-6	3200**	G-7
5965	F	20	12	G-9	G-2	P-1	7000	G-2
"	F	20	12	G-9	G-7	P-6	7000	G-7
5998	D	50	3		G-1/11	P-2	15,000	G-1
"	D	50	3		G-4/11	P-5	15,000	G-4
6005	D	90	8	G-1/7	G-1/7	P-5/6	3700**	G-1/7
6012*	D	15	4		G-3/13	P-11		
6058*	D	25	8		G-2	P-11		
" *	D	25	8		G-7	P-11		
6080	D	60	3		G-1/11	P-2	7000	G-1
"	D	60	3		G-4/11	P-5	7000	G-4
6084	C	95	12	G-1/7	G-9	P-1/6		G-9
6085	F	90	12	G-9	G-2	P-1	2700**	G-2
"	F	90	12	G-9	G-7	P-6	2700**	G-7
6101	D	26	8		G-6	P-1	5300	G-6
"	D	26	8		G-5	P-2	5300	G-5
6134	D	20	4		G-4	P-6/8	9000	G-4
6135	D	80	8	G-1/5	G-6	P-1/5	2200**	G-6
6136	D	85	8		G-1	P-5/6	4000**	G-1
6146	D	35	4	G-1/4/6	G-5/11	P-3/10	7000	G-5
6186	D	70	8	G-2/7	G-1	P-5/6	4000**	G-1
6188	D	95	3		G-1	P-2	1000**	G-1
"	D	95	3		G-4	P-3	1000**	G-4
6189	F	90	12	G-9	G-2	P-1	3000**	G-2
"	F	90	12	G-9	G-7	P-6	3000**	G-7
6197	D	15	12	G-2/3/8/9	G-2/9	P-3/6/8	11,000	G-2/9
6201	F	90	12	G-9	G-2	P-1	3300**	G-2
"	F	90	12	G-9	G-7	P-6	3300**	G-7
6211	F	13	12	G-9	G-2	P-1	4700	G-2
"	F	13	12	G-9	G-7	P-6	4700	G-7
6216	D	35	12	G-1/3/6/8	G-2	P-1/6/7	12,000	G-2
6227	D	78	12	G-1/6	G-2/11	P-8/9	9000	G-2
6265	D	25	8		G-1	P-5/6	4000	G-1
6267	D	78	12	G-2/7	G-9	P-1/6	2000**	G-9
6293	D	30	4	G-1/4/6	G-13	P-3/5/10		
6350	F	58	12	G-9	G-3	P-1	4000**	G-3
"	F	58	12	G-9	G-8	P-6	4000**	G-8
6360	F	100	12	G-9	G-1	P-6/7	2000**	G-1
"	F	100	12	G-9	G-3	P-7/8	2000**	G-3
6463	F	58	12	G-9	G-3	P-1	3000**	G-3
"	F	58	12	G-9	G-8	P-6	3000**	G-8
6485	D	20	8		G-1	P-5/6	9000	G-1
6550	D	45	4		G-5/11	P-3/4	11,000	G-5
6661	D	83	8		G-1	P-5/6	3400**	G-1
6664	D	100	8		G-6	P-1	4000**	G-6
6676	D	15	8		G-1	P-5/6	6200	G-1
6680	F	90	12	G-9	G-2	P-1	3000**	G-2
"	F	90	12	G-9	G-7	P-6	3000**	G-7
6686	D	25	12	G-1/6	G-2	P-7/8	10,000	G-2
6688	D	30	12	G-1/3	G-2	P-7/9	16,000	G-2

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G _m – E _m		NOTES	
							Rated G _m Micromhos	GAS
6689	D	16	12		G-2	P-1/6	9000	G-2
6883	F	40	4	G-1/4/6	G-5/11	P-3/10	10,000	G-5
6922	D	20	12		G-2	P-1	11,000	G-2
"	D	20	12		G-7	P-6	11,000	G-7
6939	F	23	12	G-9	G-3	P-7/8	10,000	G-3
"	F	23	12	G-9	G-1	P-6/7	10,000	G-1
6973	D	21	12	G-1/3/6/8	G-3/6	P-1/8/9	4800	G-3/6
7025	F	100	12	G-9	G-2	P-1	1000**	G-2
"	F	100	12	G-9	G-7	P-6	1000**	G-7
7027	D	25	4	G-1/4/5/6	G-5/6	P-1/3/4	6000	G-5/6
7054	F	20	12	G-3/9	G-2	P-7/8	11,500	G-2
7059	F	23	12		G-2	P-3/6	5200	G-2
"	F	35	12		G-9	P-1	8500	G-9
7060	F	25	12		G-2	P-1	4900	G-2
"	F	15	12		G-8	P-6/7	7000	G-8
7061	F	30	12	G-1/3/6/8	G-3/6/11	P-1/8/9	4200	G-3/6
7119	F	23	12	G-8	G-2	P-1	15,000	G-2
"	F	23	12	G-8	G-7	P-9	15,000	G-7
7189	D	50	12	G-1/2/6/9	G-1/2/11	P-6/7/9	11,000	G-1/2
7199	D	21	12		G-7	P-2/3	7000	G-7
"	D	45	12		G-9	P-1	2000**	G-9
7233	D	19	12	G-1/2/3/6/7/9	G-2/7	P-1/3/6/9/11/13	17,500	G-2/7
7247	F	90	12	G-9	G-2	P-1	3000**	G-2
"	F	100	12	G-9	G-7	P-6	700**	G-7
7308	D	16	12		G-2	P-1	12,500	G-2
"	D	16	12		G-7	P-6	12,500	G-7
7316	F	85	12	G-9	G-2	P-1	2200**	G-2
"	F	85	12	G-9	G-7	P-6	2200**	G-7
7320	D	65	12	G-1/2/6/8	G-1/2/11	P-7/9	11,000	G-1/2
7355	D	33	4		G-3/6/8	P-11		G-6
7360	D	21	12		G-3	P-2/6/8	5400	G-3
"	D	21	12		G-3	P-2/6/8	5400	G-3
7370	I	25	12	G-8	G-2	P-1	10,000	G-2
"	I	25	12	G-8	G-7	P-9	10,000	G-7
7408	D	30	4		G-5/11	P-3/4	4100	G-5
7543	D	75	8		G-1	P-5/6	4000**	G-1
7551	F	27	12	G-1/3/8/9	G-2/11	P-3/6/8	5300	G-2
7581	D	34	4		G-5/11	P-3/4	6000	G-5
7586	D	12	1		G-4	P-2	7000	G-4
7587	D	15	1		G-4	P-2/10	10,000	G-4
7591	D	60	4	G-4/8	G-6/11	P-3/4/8	10,500	G-6
7643	D	13	12		G-9	P-1	5000	G-9
"	D	13	12		G-2	P-3/6	6200	G-2
7695	J	34	12	G-2/3/8	G-1/6/9	P-11		G-6
7701	F	58	12	G-1/3/7/8/9	G-2	P-6/7/9/13	3600**	G-2
7716	F	11	12		G-2	P-3/9/11	2900**	G-2
"	F	15	12		G-7	P-8/9	10,000	G-7
7717	D	17	8	G-2/7	G-1	P-5/6	8000	G-1
7724	F	100	12		G-8	P-9	800**	G-8
" *	F	25	12		G-2	P-11		
" *	F	25	12		G-6	P-11		
7751	E	35	4	G-1/4	G-5/11	P-1/3/4	14,000	G-5
7788	D	15	12	G-1/3/6/9	G-2	P-6/7/9	20,000	G-2
7868	D	60	16	G-1/2/6/7	G-2/6/11	P-1/7/9	10,000	G-2/6
7898	F	40	12	G-9	G-7	P-6	5500	G-7
"	F	40	12	G-9	G-2	P-1	5500	G-2

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	Gm — Em	NOTES	
						Rated Gm Micromhos	G A S
7905	D	10	11	G-3/4/5/8	G-2 P-6/11	6700	G-2
7984	F	45	14	G-1/2/3/4/5/ 6/7/8/9	G-10/11 P-1/3/4/5/7	13,500	G-10
8016*	A	60	4	G-1/3/5/8	G-12 P-10/13		
8032	F	35	4	G-1/4/6	G-5/11 P-3/10	10,000	G-5
8056	D	30	1		G-2/4 P-11		G-4
8077	F	20	12	G-3/9	G-2 P-7/8	11,500	G-2
8102	F	31	12		G-3 P-1	8500	G-3
"	F	29	12		G-9 P-6/7	7500	G-9
8106	F	15	12	G-2/3/6/8/9	G-7 P-1/3/8	9000	G-7
8156	F	30	14	All pins	G-10/11 P-1/3/4/5/7	7500	G-10
8233	D	18	15	G-2/6/7/9	G-8 P-1/2/3/6	20,000	G-9
8278	C	54	15	G-1/2/3/6/7/8	G-3/7/11 P-1/8/9	20,000	G-3/7
8298	D	36	4	G-1/4/6	G-5/11 P-3/10	7000	G-5
8417	D	50	4		G-5/11 P-3/4	23,000	G-5
8425	D	88	8		G-1 P-5/6	4000**	G-1
8552	F	40	4	G-1/4/6	G-5/11 P-3/10	10,000	G-5
8908	D	13	4	G-1/5/6/8	G-1/3/5/13 P-10/11	12,000	G-1/5
9001	D	35	8	G-2/7	G-1/5/6 P-11		G-1
9002	D	75	8	G-1/2/5/7	G-6 P-1/5	1500**	G-6
9003	D	35	8	G-2/7	G-1/5/6 P-11		G-1
9006*	D	40	8	G-1/2/5/7	G-1/5 P-11		
B36	F	95	3		G-1 P-2	3000**	G-1
"	F	95	3		G-4 P-5	3000**	G-4
B65	D	95	3		G-1 P-2	3000**	G-1
"	D	95	3		G-4 P-5	3000**	G-4
B152	F	90	12	G-9	G-2 P-1	3300**	G-2
"	F	90	12	G-9	G-7 P-6	3300**	G-7
B309	F	90	12	G-9	G-2 P-1	3300**	G-2
"	F	90	12	G-9	G-7 P-6	3000**	G-7
B329	F	90	12	G-9	G-2 P-1	3000**	G-2
"	F	90	12	G-9	G-7 P-6	3000**	G-7
B339	F	100	12	G-9	G-2 P-1	1000**	G-2
"	F	100	12	G-9	G-7 P-6	1000**	G-7
BPM04	D	90	8	G-1/7	G-1/7 P-5/6	3700**	G-1/7
D2M9*	D	25	8		G-2 P-11		
" *	D	25	8		G-7 P-11		
D77*	D	25	8		G-2 P-11		
" *	D	25	8		G-7 P-11		
D152*	D	25	8		G-2 P-11		
" *	D	25	8		G-7 P-11		
DA90*	A	85	7	G-2/5/6	G-2/6/12 P-11		
DAC32	A	65	4		G-3/10/12 P-11		G-10
" *	A	90	4		G-5/12 P-11		
DAF91	A	65	7		G-4/6/12 P-11		G-6
" *	A	90	7		G-3/12 P-11		
DAF92	A	65	7		G-3/6/12 P-11		G-6
" *	A	80	7		G-4/12 P-11		
DAF96	A	70	7		G-4/5/6/12 P-11		G-6
" *	A	75	7		G-3/12 P-11		
DC90	A	50	7	G-2/3/5/6	G-2/3/5/6/12 P-11		G-5/6
DCC90	B	55	7	G-4	G-2/3 P-11		G-3
"	B	55	7	G-4	G-5/6 P-11		G-5
DF33	A	60	4		G-4/10/12 P-11		G-10
DF91	A	55	7	G-5	G-2/3/6 P-11		G-6
DF92	A	60	7	G-5	G-2/3/6 P-11		G-6

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m — Em		NOTES	
							Rated Gm Micromhos	G A S
DF96	A	50	7	G-5	G-2/3/6	P-11		G-6
DF904	A	55	7	G-5	G-2/3/6	P-11		G-6
DH63	D	95	4		G-10	P-3	1000**	G-10
" *	D	70	4		G-4	P-11		
" *	D	70	4		G-5	P-11		
DH77	D	100	8		G-1	P-7	1000**	G-1
" *	D	90	8		G-5	P-11		
" *	D	90	8		G-6	P-11		
DK32	A	75	4		G-5/6/10/12	P-11		G-10
DK91	A	60	7	G-5	G-3/4/6	P-11		G-6
DK96	A	53	7		G-2/3/4/12	P-11		G-4
DL29	A	95	17	G-7	G-6	P-2/3	2400**	G-6
DL33	B	55	4	G-8	G-3/4/5	P-11		G-5
DL36	A	46	4		G-4/5/12	P-11		G-5
DL91	A	50	7	G-2/5/6	G-3/4	P-11		G-3
DL92	B	55	7	G-2/5/6	G-2/3/4/6	P-11		G-3
DL93	B	55	7	G-2/5/6	G-3/4	P-11		G-4
DL94	B	55	7	G-5	G-2/3/6	P-11		G-6
DL95	B	52	7	G-2/5/6	G-2/3/4/6	P-11		G-3
DL96	B	53	7	G-5	G-2/3/6	P-11		G-6
DP61	D	15	8	G-2/7	G-1	P-5/6	5000	G-1
DY30*	A	60	4	G-1/3/5/8	G-12	P-10/13		
DY86*	A	60	12	G-1/6/9	G-2/8	P-10/13	Set 2/8 at	P for
"							SHORTS	
DY87*	A	50	12	G-1/6/9	G-2/8	P-10/13	Set 2/8 at	P for
"							SHORTS	
E55L	D	18	15	G-2/6/7/9	G-8	P-1/2/3/6	20,000	G-8
E80CC	F	90	12	G-9	G-2	P-1	2700**	G-2
"	F	90	12	G-9	G-7	P-6	2700**	G-7
E80CF	D	13	12		G-9	P-1	5000	G-9
"	D	13	12		G-2	P-3/6	6200	G-2
E80F	C	95	12	G-1/7	G-9	P-1/6		G-9
E80L	D	78	12	G-1/6	G-2/11	P-8/9	9000	G-2
E81L	D	25	12	G-1/6	G-2	P-7/8	10,000	G-2
E83F	D	16	12		G-2	P-1/6	9000	G-2
E88CC	D	20	12		G-2	P-1	11,000	G-2
"	D	20	12		G-7	P-6	11,000	G-7
E90F	D	83	8		G-1	P-5/6	3400**	G-1
E180F	D	30	12	G-1/3	G-2	P-7/9	16,000	G-2
E182CC	F	23	12	G-8	G-2	P-1	15,000	G-2
"	F	23	12	G-8	G-7	P-9	15,000	G-7
E188CC	D	16	12		G-2	P-1	12,500	G-2
"	D	16	12		G-7	P-6	12,500	G-7
E235L	E	35	4	G-1/4	G-5/11	P-1/3/4	14,000	G-5
E810F	D	15	12	G-1/3/6/9	G-2	P-6/7/9	20,000	G-2
EEA91*	D	25	8		G-2	P-11		
" *	D	25	8		G-7	P-11		
EEA901*	D	25	8		G-2	P-11		
" *	D	25	8		G-7	P-11		
EABC80	D	95	12		G-8	P-9	1000**	G-8
" *	D	25	12		G-1	P-11		
" *	D	25	12		G-2	P-11		
" *	D	25	12		G-6	P-11		
EAF801	D	57	12		G-2/11	P-1/6	5000	G-2
" *	D	75	12		G-8	P-11		

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	G m — Em	NOTES	
						Rated Gm Micromhos	G A S
EAM86	D	30	12		G-1/8 P-11		
"	D	0	12		P-6/7/13	OK if target glows	
EBC33	D	95	4		G-10 P-3	1000**	G-10
" *	D	70	4		G-4 P-11		
" *	D	70	4		G-5 P-11		
EBC81	D	100	12		G-2 P-1	900**	G-2
" *	D	44	12		G-13 P-6		
" *	D	44	12		G-13 P-8		
EBC90	D	90	8		G-1 P-7	1000**	G-1
" *	D	90	8		G-5 P-11		
" *	D	90	8		G-6 P-11		
EBC91	D	100	8		G-1 P-7	850**	G-1
" *	D	90	8		G-5 P-11		
" *	D	90	8		G-6 P-11		
EBF80	D	27	12		G-2 P-1/6	7000	G-2
" *	D	75	12		G-7 P-11		
" *	D	75	12		G-8 P-11		
EBF83	D	70	12		G-2/11 P-1/6	6000	G-2
" *	D	60	12		G-8 P-11		
" *	D	60	12		G-7 P-11		
EBF89	D	72	12		G-2 P-1/6	4000**	G-2
" *	D	50	12		G-7 P-11		
" *	D	50	12		G-8 P-11		
EBL21	D	48	17		G-3/11 P-2/4	5000	G-3
" *	D	50	17		G-5 P-11		
" *	D	50	17		G-6 P-11		
EC81	D	26	12		G-1 P-8	5500	G-1
EC86	D	36	12	G-1/2/3/6/7/8	G-2/6/8 P-1/9	14,000	G-2/6/8
EC88	D	65	12	G-1/3/6/7/9	G-1/3/6/7/9 P-8	13,000	G-1/3/6/7/9
EC90	D	80	8	G-1/5	G-6 P-1/5	2200**	G-6
EC91	D	74	8	G-1/2/5/6	G-1/6 P-7	10,000	G-1/6
EC92	D	100	8		G-6 P-1	4000**	G-6
EC94	D	15	8	G-1/2/6/7	G-2/6 P-1/7	6000	G-2/6
EC95	D	50	8	G-1/7	G-2 P-5/6	9000	G-2
ECC33	D	88	3		G-1 P-2	3000**	G-1
"	D	88	3		G-4 P-5	3000**	G-4
ECC35	D	95	3		G-1 P-2	1400**	G-1
"	D	95	3		G-4 P-5	1400**	G-4
ECC81	F	100	12	G-9	G-2 P-1	3500**	G-2
"	F	100	12	G-9	G-7 P-6	3500**	G-7
ECC82	F	90	12	G-9	G-2 P-1	3000**	G-2
"	F	90	12	G-9	G-7 P-6	3000**	G-7
ECC83	F	100	12	G-9	G-2 P-1	1000**	G-2
"	F	100	12	G-9	G-7 P-6	1000**	G-7
ECC85	D	30	12		G-2 P-1	6000	G-2
"	D	30	12		G-7 P-6	6000	G-7
ECC86	D	65	12		G-2/11 P-1	2600**	G-2
"	D	65	12		G-7/11 P-6	2600**	G-7
ECC88	D	17	12		G-2 P-1	12,500	G-2
"	D	17	12		G-7 P-6	12,500	G-7
ECC91	D	26	8		G-6 P-1	5300	G-6
"	D	26	8		G-5 P-2	5300	G-5
ECC180	D	20	12		G-2 P-1	6400	G-2
"	D	20	12		G-7 P-6	6400	G-7
ECC186	F	85	12	G-9	G-2 P-1	2200**	G-2
"	F	85	12	G-9	G-7 P-6	2200**	G-7

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m — E m		NOTES	
							Rated Gm Micromhos	G A S
ECC189	D	90	12		G-2/11	P-1	7000	G-2
"	D	90	12		G-7/11	P-6	7000	G-7
ECC801	F	90	12	G-9	G-2	P-1	3300**	G-2
"	F	90	12	G-9	G-7	P-6	3300**	G-7
ECC808	D	48	12		G-1/3	P-11		G-1
"	D	48	12		G-7/9	P-11		G-9
ECF80	D	18	12		G-2	P-3/6	6500	G-2
"	D	15	12		G-9	P-1	5500	G-9
ECF82	D	28	12		G-9	P-1	8500	G-9
"	D	15	12		G-2	P-3/6	5000	G-2
ECF86	D	15	12	G-1/3	G-6	P-7	7000	G-6
"	D	23	12	G-1/3	G-2	P-8/9	10,000	G-2
ECF200	D	47	13		G-3	P-4/7/8	14,000	G-3
"	D	47	13		G-10	P-7	4800	G-10
ECF201	D	28	13		G-3	P-7/8	12,000	G-3
"	D	16	13		G-10	P-9	5000	G-10
ECF202	D	26	12		G-10	P-9	10,000	G-10
"	D	16	12		G-3	P-7/8	14,000	
ECF805	D	17	12	G-6/8	G-9	P-1	5500	G-9
"	D	37	12	G-6/8	G-7	P-2/3	11,000	G-7
ECH81	D	45	12		G-9	P-8	1200**	G-9
"	D	21	12		G-2	P-1/6	6000	G-2
ECH83	D	75	12		G-9	P-8	2200**	G-9
"	D	20	12		G-2	P-1/6	5000	G-2
ECH84	D	80	12		G-9	P-8	2000**	G-9
"	D	50	12		G-2	P-6/7	2200**	G-2
ECH200	D	60	13		G-3	P-2/4/7		G-3
"	D	62	13		G-8	P-10		G-8
ECL80	D	75	12		G-2	P-1	1100**	G-2
"	D	17	12		G-9	P-6/8	5000	G-9
ECL82	D	100	12		G-1	P-9	2000**	G-1
"	D	19	12		G-3/11	P-6/7	7500	G-3
ECL84	D	27	12		G-8	P-6/9	10,000	G-8
"	D	70	12		G-1	P-2	4000	G-1
ECL85	D	30	12		G-2	P-1	5000	G-2
"	D	25	12		G-9/11	P-6/7	7700	G-9
ECL86	D	100	12		G-1	P-9	600**	G-1
"	D	20	12		G-8	P-3/6	10,000	G-8
ED2*	D	25	8		G-2	P-11		
"*	D	25	8		G-7	P-11		
ED500	D	50	15	G-1/2/3/6/7/9	G-8/10	P-11		G-8
EF22	D	65	17		G-6	P-2/3	1600**	G-6
EF80	D	12	12	G-1/3	G-2	P-7/8	5500	G-2
EF83	D	48	12	G-2/7	G-9	P-1/6	7500	G-9
EF85	D	14	12	G-1/3	G-2	P-7/8	7000	G-2
EF86	D	78	12	G-2/7	G-9	P-1/6	2000**	G-9
EF89	D	60	12	G-1/6	G-2	P-7/8	3500**	G-2
EF91	D	27	8		G-1	P-5/7	7600	G-1
EF92	D	27	8		G-1	P-5/7	5500	G-1
EF93	D	80	8		G-1	P-5/6	4000**	G-1
EF94	D	85	8		G-1	P-5/6	4000**	G-1
EF95	D	16	8	G-2/7	G-1	P-5/6	5000	G-1
EF96	D	70	8	G-2/7	G-1	P-5/6	4000**	G-1
EF97	D	22	8		G-1	P-5/6	5000	G-1
EF183	D	15	12	G-1/3	G-2	P-7/8	12,500	G-2
EF184	D	25	12	G-1/3	G-2	P-7/8	15,000	G-2

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G m — E m		NOTES	
							Rated Gm Micromhos	G A S
EF804	D	85	12	G-2/6	G-9	P-7/8	2500**	G-9
EFC801	D	15	12	G-1/3	G-9	P-8	9000	G-9
"	D	18	12	G-1/3	G-2	P-6/7	11,000	G-2
EFC802	D	90	12		G-9	P-1	2000**	G-9
"	D	27	12		G-2	P-3/6	5500	G-2
EFL200	D	23	13		G-1	P-3/4	8500	G-1
"	D	45	13		G-8	P-9/10	21,000	G-8
EH90	D	20	8		G-1	P-5/6	1100**	G-1
EK11	D	85	12		G-2	P-5		G-2
EK90	D	25	8		G-1	P-5/6	7000	G-1
EL34	D	12	4		G-5/11	P-3/4	6000	G-5
EL36	D	48	4	G-1/3/4/8	G-5/11	P-1/4/10	14,000	G-5
EL37	D	15	4		G-5/11	P-3/4	5200	G-5
EL38	D	35	4		G-4/5/10	P-11		G-5
EL81	D	47	12	G-1/6/7/8/9	G-2/11	P-7/8/10	2500**	G-2
EL82	D	25	12		G-2/11	P-7/9	9000	G-2
EL83	D	13	12		G-2	P-1/7	7000	G-2
EL84	D	65	12	G-1/2/6/8	G-1/2/11	P-7/9	11,000	G-1/2
EL86	D	40	12	G-1/2/6/7/8/9	G-1/2/11	P-6/7/8/9	10,000	G-1/2
EL90	D	90	8	G-1/7	G-1/7	P-5/6	3700**	G-1/7
EL91	D	67	8		G-1	P-5/7	2600**	G-1
EL95	D	13	8	G-1/7	G-1/7	P-5/6	5000	G-1/7
EL180	F	17	12	G-3/6/9	G-2	P-7/8	11,000	G-2
EL500	D	16	16	G-1/2/3/6/7/8	G-1/2/11	P-6/7/10	6000	G-1/2
EL503	C	54	15	G-1/2/3/6/7/8	G-3/7/11	P-1/8/9	20,000	G-3/7
EL802	D	21	12	G-3/6/8/9	G-2	P-6/7/8	20,000	G-2
EL821	D	80	12	G-1/9	G-2/11	P-7/8	7500	G-2
ELL80	D	37	12		G-2/11	P-1/3	6000	G-2
"	D	37	12		G-6/11	P-8/9	6000	G-6
EM34	D	0	4			P-3/4/6/8/13	OK if target glows	
EM35	D	0	4			P-5/6/7/13	OK if target glows	
EM80	D	0	12	G-3/6/8/9		P-3/6/7/8/9/13	OK if target glows	
EM81	D	0	12	G-3/6/8/9		P-3/6/7/8/9/13	OK if target glows	
EM84	D	0	12	G-2/6/8		P-2/6/7/8/9/13	OK if target glows	
EM87	D	0	12	G-2/6/8		P-2/6/7/8/9/13	OK if target glows	
EMM801	D	0	12			P-2/8/13	Target #1 should glow	
"	D	0	12			P-2/6/13	Target #2 should glow	
EQ80	D	40	12	G-3/8	G-7	P-1/6	1500**	G-7
EY80*	D	20	12		G-9	P-11		
EY81*	D	28	12	All pins	G-2/9	P-11		
EY82*	D	20	12		G-9	P-11		
EY86*	D	40	12	All pins	G-1/4/6/9	P-10/13		
EY88*	D	30	12	G-1/2/3/6/7/8/9	G-3/8/9	P-11		
"								
EY500*	D	38	15	G-2/7/8	G-2/7/8	P-11		
EZ35*	D	30	4		G-3	P-11		
"*	D	30	4		G-5	P-11		
EZ80*	D	28	12	G-2/6/8/9	G-1	P-11		
"*	D	28	12	G-2/6/8/9	G-7	P-11		
EZ81*	D	25	12	G-2/6/8	G-1	P-11		
"*	D	25	12	G-2/6/8	G-7	P-11		
EZ90*	D	30	8		G-1	P-11		
"*	D	30	8		G-6	P-11		
FM1000	D	33	17		G-2/5/6	P-11		G-2
GY501	B	37	15	G-1/9	G-2/8	P-10/13	Set 2/8 at SHORTS	P for

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	G _m — E _m		NOTES	
							Rated G _m Micromhos	G A S
GZ30*	C	20	6		G-4/12	P-11		
" *	C	20	6		G-6/12	P-11		
GZ32*	C	30	6		G-6/12	P-11		
" *	C	30	6		G-4/12	P-11		
GZ34*	C	30	6		G-4/12	P-11		
" *	C	30	6		G-6/12	P-11		
H63	D	100	4		G-10	P-4	1000**	G-10
HAA91*	F	25	8		G-2	P-11		
" *	F	25	8		G-7	P-11		
HABC80	G	95	12		G-8	P-9	1000**	G-8
" *	G	25	12		G-1	P-11		
" *	G	25	12		G-2	P-11		
" *	G	25	12		G-6	P-11		
HBC90	F	80	8		G-1	P-7	1000**	G-1
" *	F	80	8		G-5	P-11		
" *	F	80	8		G-6	P-11		
HBC91	F	100	8		G-1	P-7	850**	G-1
" *	F	90	8		G-5	P-11		
" *	F	90	8		G-6	P-11		
HCC85	G	25	12		G-2	P-1	5800	G-2
"	G	25	12		G-7	P-6	5800	G-7
HCH81	F	100	12		G-9	P-8	3700**	G-9
"	F	60	12		G-2	P-1/6	2400**	G-2
HD14	A	65	4		G-3/10/12	P-11		G-10
" *	A	90	4		G-5/12	P-11		
HF93	F	80	8		G-1	P-5/6	4000**	G-1
HF94	F	85	8		G-1	P-5/6	4000**	G-1
HK90	F	18	8		G-1	P-5/6	7000	G-1
HL90	G	90	8	G-1/7	G-1/7	P-5/6	3700**	G-1/7
HL92	J	20	8	G-2/5	G-2/5/11	P-6/7	5800	G-2/5
HL94	H	16	8	G-2/5	G-2/5/11	P-6/7	5800	G-2/5
HM04	D	25	8		G-1	P-5/6	7000	G-1
HY90*	I	20	8	G-6	G-5	P-11		
KT63	D	95	4		G-5/11	P-3/4	2500**	G-5
KT66	D	40	4		G-3/4/5	P-11		G-5
KT88	D	32	4		G-3/4/5	P-11		G-5
L63	D	90	4		G-5	P-3	3000**	G-5
L77	D	80	8	G-1/5	G-6	P-1/5	2200**	G-6
LCF80	D	18	12		G-2	P-3/6	6000	G-2
"	D	15	12		G-9	P-1	5000	G-9
LCF200	C	47	13		G-3	P-4/7/8	14,000	G-3
"	C	47	13		G-10	P-9	4800	G-10
LCF201	C	28	13		G-3	P-7/8	12,000	G-3
"	C	16	13		G-10	P-9	5000	G-10
LCF801	C	15	12	G-1/3	G-9	P-8	9000	G-9
"	C	18	12	G-1/3	G-2	P-6/7	11,000	G-2
LCF802	D	100	12		G-9	P-1	2500**	G-9
"	D	17	12		G-2	P-3/6	5500	G-2
LCH200	C	60	13		G-3	P-2/4/7		G-3
"	C	62	13		G-8	P-10		G-8
LCL80	C	65	12		G-2	P-1	5000	G-2
"	C	44	12		G-9	P-6/8	10,000	G-9
LCL85	E	34	12		G-2	P-1	6500	G-2
"	E	20	12		G-9/11	P-6/7	7000	G-9
LF183	C	15	12	G-1/3	G-2	P-7/8	12,500	G-2
LF184	C	25	12	G-1/3	G-2	P-7/8	15,000	G-2

TUBE	Selector	Load	Socket	FUNCTION			
				SHORTS Glow O.K.	G m — Em	NOTES	
						Rated Gm Micromhos	G A S
LFL200	F	23	13		G-1 P-3/4	8500	G-1
"	F	45	13		G-8 P-9/10	21,000	G-8
LL500	G	16	15	G-1/2/3/6/7/8	G-1/2/11 P-6/7/10	6000	G-1/2
LL521	G	45	15	G-1/2/3/6/7/8	G-1/8 P-3/6/10	17,000	G-1/8
LN152	D	75	12		G-2 P-1	1100**	G-2
"	D	17	12		G-9 P-6/8	5000	G-9
LY81*	F	28	12		G-2/9 P-11		
LY88*	G	35	6	G-1/2/3/6/7	G-1/2/3/6/7/8/9 P-11		
N16	B	55	4	G-8	G-3/4/5 P-11		G-5
N17	B	55	7	G-2/5/6	G-2/3/4/6 P-11		G-3
N18	B	52	7	G-2/5/6	G-2/3/4/6 P-11		G-3
N19	B	55	7	G-5	G-2/3/6 P-11		G-6
B144	D	67	8		G-1 P-5/7	2600**	G-1
N709	D	65	12	G-1/2/6/8	G-1/2/11 P-7/9	11,000	G-1/2
N727	D	90	8	G-1/7	G-1/7 P-5/6	3700**	G-1/7
PABC80	E	95	12		G-8 P-9	1000**	G-8
" *	E	25	12		G-1 P-11		
" *	E	25	12		G-2 P-11		
" *	E	25	12		G-6 P-11		
PC86	B	49	12	All pins	G-2/6/8 P-1/9	14,000	G-2/6/8
PC88	C	47	12	G-1/3/6/7/9	G-1/3/6/7/9 P-8	13,000	G-1/3/6/7/9
PC95	C	50	8	G-1/7	G-2 P-5/6	10,000	G-2
PC900	C	42	8	G-2/7	G-1 P-5	14,000	G-1
PCC84	D	20	12	G-7/8	G-2 P-3	2500	G-2
"	D	20	12	G-7/8	G-6 P-9	2500	G-6
PCC85	E	25	12		G-2 P-1	6000	G-2
"	E	25	12		G-7 P-6	6000	G-7
PCC88	D	85	12		G-2/11 P-1	12,000	G-2
"	D	85	12		G-7/11 P-6	12,000	G-7
PCC189	D	22	12		G-2 P-1	12,500	G-2
"	D	22	12		G-7 P-6	12,500	G-7
PCF80	E	18	12		G-2 P-3/6	6500	G-2
"	E	15	12		G-9 P-1	5500	G-9
PCF82	E	35	12		G-9 P-1	8500	G-9
"	E	20	12		G-2 P-3/6	5000	G-2
PCF200	E	18	13		G-3 P-4/7/8	14,000	G-3
"	E	35	13		G-10 P-9	4800	G-10
PCF201	E	28	13		G-3 P-7/8	12,000	G-3
"	E	16	13		G-10 P-9	5000	G-10
PCF801	E	15	12	G-1/3	G-9 P-8	9000	G-9
"	E	18	12	G-1/3	G-2 P-6/7	11,000	G-2
PCF802	E	90	12		G-9 P-1	2000**	G-9
"	E	27	12		G-2 P-3/6	5500	G-2
PCF805	D	17	12	G-6/8	G-9 P-1	5500	G-9
"	D	37	12	G-6/8	G-7 P-2/3	1000	G-7
PCH200	E	60	13		G-3 P-2/4/7		G-3
"	E	62	13		G-8 P-10		G-8
PCL82	G	70	12		G-1 P-9	1000**	G-1
"	G	11	12		G-3 P-6/7	5000	G-3
PCL84	G	27	12		G-8 P-6/9	10,000	G-8
"	G	70	12		G-1 P-2	4000	G-1
PCL85	G	30	12		G-2 P-1	5000	G-2
"	G	25	12		G-9/11 P-6/7	7700	G-9
PCL86	F	100	12		G-1 P-9	600**	G-1
"	F	20	12		G-8 P-3/6	10,000	G-8
PD500	D	50	15	G-1/2/3/6/7/9	G-8/10 P-11		G-8

TUBE	Selector	Load	Socket	FUNCTION				
				SHORTS Glow O.K.	Gm — Em		NOTES	
							Rated Gm Micromhos	GAS
PF86	C	95	12	G-2/7	G-9	P-1/6		G-9
PFL200	G	23	13		G-1	P-3/4	8500	G-1
"	G	45	13		G-8	P-9/10	21,000	G-8
PL36	H	48	4	G-1/3/4/8	G-5/11	P-1/4/10	14,000	G-5
PL81	G	26	12	G-1/6/7/8/9	G-2/11	P-7/8/10	7000	G-2
PL82	G	30	12		G-2/11	P-7/9	10,000	G-2
PL84	G	30	12	G-1/2/7/8	G-1/2/11	P-7/8/9	10,000	G-1/2
PL500	H	16	15	G-1/2/3/6/7/8	G-1/2/11	P-6/7/10	6000	G-1/2
PL505	I	56	15	G-1/2/3/6/7/8	G-1/8	P-3/6/10		G-1/8
PL509	H	56	15	G-1/2/3/6/7/8	G-1/8	P-3/6/10		G-1/8
PL521	H	45	15	G-1/2/3/6/7/8	G-1/8	P-3/6/10	17,000	G-1/8
PL802	G	21	12	G-3/6/8/9	G-2	P-6/7/8	20,000	G-2
PM04	D	80	8		G-1	P-5/6	4000**	G-1
PM07	D	27	8		G-1	P-5/7	7600	G-1
PY80*	G	20	12		G-9	P-11		
PY81*	G	30	12	G-2/9	G-2/9	P-11		
PY82	G	23	12	G-2/7/9	G-2/7/9	P-11		
PT88*	H	30	12	G-1/2/3/6/7/8/9	G-1/2/3/6/7/8/9	P-11		
PY500	J	38	15	G-2/7/8	G-2/7/8	P-11		
SP6	D	27	8		G-1	P-5/7	7600	G-1
U50*	C	40	6		G-4/12	P-11		
"*	C	40	6		G-6/12	P-11		
U52*	C	30	6		G-4/12	P-11		
"*	C	30	6		G-6/12	P-11		
U78*	D	30	8		G-1	P-11		
"*	D	30	8		G-6	P-11		
U147*	D	30	4		G-3	P-11		
"*	D	30	4		G-5	P-11		
U149*	D	25	17		G-3	P-11		
"*	D	25	17		G-6	P-11		
U709*	D	25	12	G-2/6/8	G-1	P-11		
"*	D	25	12	G-2/6/8	G-7	P-11		
UABC80	H	95	12		G-8	P-9	1000**	G-8
"*	H	25	12		G-1	P-11		
"*	H	25	12		G-2	P-11		
"*	H	25	12		G-6	P-11		
UBF80	G	27	12		G-2	P-1/6	7000	G-2
"*	G	75	12		G-7	P-11		
"*	G	75	12		G-8	P-11		
UBF89	G	72	12		G-2	P-1/6	4000**	G-2
"*	G	50	12		G-7	P-11		
"*	G	50	12		G-8	P-11		
UC92	E	100	8		G-6	P-1	4000**	G-6
UCC85	H	20	12		G-2	P-1	6000	G-2
"	H	20	12		G-7	P-6	6000	G-7
UCH81	G	45	12		G-9	P-8	1200**	G-9
"	G	21	12		G-2	P-1/6	6000	G-2
UCL82	J	95	12		G-1	P-9	1600**	G-1
"	J	15	12		G-3	P-6/7	7500	G-3
UF80	G	12	12	G-1/3	G-2	P-7/8	5500	G-2
UF85	G	14	12	G-1/3	G-2	P-7/8	7000	G-2
UF89	F	12	12	G-1/6	G-2	P-7/8	4400	G-2
UL84	J	18	12	G-1/2/7/8	G-1/2	P-7/8/9	10,000	G-1/2
UM80	G	0	12	G-3/6/8/9	P-3/6/7/8/9/13			OK if target glows
UY85	I	20	12	G-1/6/9	G-1/6/9	P-11		
W17	A	55	7	G-5	G-2/3/6	P-11		G-6

[illegible]