



SECTION 01

ACTIVE COMPONENTS & VALVES



01

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01 SEMICONDUCTORS

→ Semiconductors

↓ Semiconductor Information

Semiconductor Information

UNDERSTANDING TRANSISTORS

All transistors registered with the Electronic Industries Association of Japan (EIAJ) are assigned an "S" number. The number consists of 5 elements,

ELEMENT 1

This number indicates the number of active internal or external connections minus one.

ELEMENT 2

Originally indicated that this device was registered with EIAJ, although now it is not the case.

ELEMENT 3

Polarity and applications.

- A PNP High Frequency
- B PNP Low Frequency
- C NPN High Frequency
- D NPN Low Frequency
- J P Channel FET
- K N Channel FET

ELEMENT 4

Serial number, in order of registration.

ELEMENT 5

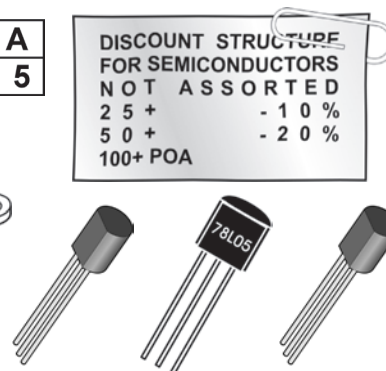
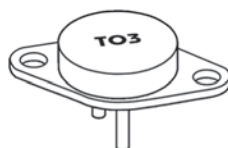
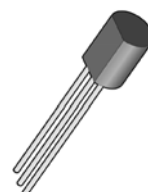
Suffixes indicate improvements and their sequence.

A = First improvement

B = Second improvement, etc

NOTE: An improved version will replace an unimproved type in all cases, but an unimproved version will not always replace an improved type.

TRANSISTOR	2	S	C	1413	A
ELEMENT	1	2	3	4	5



NON JAPANESE TRANSISTORS

Many manufacturers in Korea, Taiwan, etc. have adopted similar numbers to the Japanese and change the prefix eg KSC945. To make things more confusing, the KS is left off the device therefore C945 is the only marking on the transistor. In most cases the specs are similar but pin outs are not. Please check circuit prior to replacing transistor, the same number does not always mean that pin outs are the same.

TRANSISTOR SUBSTITUTIONS

Wagner Electronics reserves the right to supply a substitution transistor where the original is not available or is out of stock. A transistor substitution manual is available which lists possible substitutions. The comparison is on similar specs only. Therefore this should be read in conjunction with the Transistor Manual to ensure that cases and pin-outs are the same and that the transistor with the best specs is chosen. See section 2 for a comprehensive list of all TECHNICAL MANUALS AVAILABLE.

INTEGRATED CIRCUITS SUBSTITUTES

Generally speaking, integrated circuits are difficult to substitute. In cases where there are substitutes that we are aware of and stock, both types will be listed and the same type will be supplied in both cases. Check the invoice for info if you receive a chip not identical to the one you ordered. If you discover a successful substitution, please let us know including all relevant details. Thank you.

Improvements:

JAPANESE - An improved type will replace the original, eg. UPC1185H2 will replace UPC1185.

NON-JAPANESE - No set guide lines.

PLEASE NOTE

STOCK AVAILABILITY

The transistors, IC's, FET's, etc.. listed are what we have available at the time of preparation for this catalogue. It is possible that by the time you receive this listing some items may no longer be available. Manufacturers tend to discontinue goods without prior warning.

PRICE CHANGES

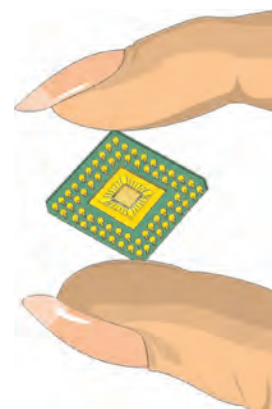
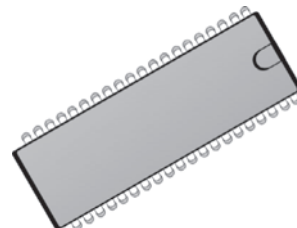
Once an item has been discontinued or there is a temporary shortage we must purchase from whoever has stock on the world market. Supply and demand will usually apply to these situations. We will continue to supply discontinued parts for as long as we are able to obtain them. The price may increase, but in most cases the repair will still be viable.

SEMICONDUCTOR WARRANTY

Faults not correctly diagnosed or faults in other parts of the circuitry may result in a newly fitted device being damaged. Manufacturers stand by their quality control testing and DO NOT accept warranty claims on semiconductor devices.

ITEMS NOT LISTED

If you require an item not listed please let us know. Maybe we have added it to our range since this publication or alternatively we can make enquires with our suppliers. If the part is available we will acquire it and add it to our range. Our extensive spare parts listing has come about because many of you have taken the time to inform us which parts you would like us to stock. When you contact us about items not listed, please supply us with as much information as you have available about the part. This will assist us in sourcing the part.
Thank You.





→ Semiconductors

↓ Transistors

TRANSISTORS LISTING

See List below for our current Transistor listing.
Note: This list is continually being updated!
Please contact us if you can not find your
required Transistor and IC.



2N

Code

2N2219A
2N2222
2N2222A
2N2368
2N2369A
2N2647
2N2905
2N2906
2N2907A
2N2946
2N3019
2N3053
2N3054
2N3055
2N3439
2N3440
2N3583
2N3771
2N3772
2N3773
2N3904
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2N3906
2N3958
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2N4037
2N4093
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2N5088
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2SA

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01 SEMICONDUCTORS

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2SC2131	2SC2594	2SC3068	2SC3353
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2SC2371	2SC2808	2SC3212A	2SC3506
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01 SEMICONDUCTORS

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2SC3604	2SC4055	2SC4886	2SC5967
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01 SEMICONDUCTORS

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2SK

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3SK

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11N

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AD

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AD162

AF

Code
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BC

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BC107C
BC108
BC109B
BC140
BC141
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BC160
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BC177
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BC557A
BC557B
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BC559C
BC560C
BC635
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BC637
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BC640
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BC846B.SMD
BC847B.SMD
BC848.SMD
BC858.SMD

BCY

Code
BCY59
BCY79

BD

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BD115
BD135
BD136
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BDX

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BF

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BF180
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BF859A
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BF871
BF872
BF960
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BFQ

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BFQ225
BFQ232A
BFQ235A
BFQ252A
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BFR

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BFR90A
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BFT

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BFW

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BFY

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BFY50
BFY51
BFY52
BFY90

BS

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BS170
BS250

BSS

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BSS38

BSX

Code
BSX20

BU

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BU126
BU205
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BU326A
BU406
BU406D
BU407
BU407D
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BU508AF.INSULATED
BU508D
BU508DF.INSULATED
BU508DW
BU526
BU606
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BU626
BU705
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BU826
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BU908
BU941.TO3
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BU2508AF.INSULATED
BU2508AX
BU2508D
BU2508DF.INSULATED
BU2508DX
BU2515DX
BU2520A
BU2520AF
BU2520AX
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BU4508DX
BU4522AX
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BUH

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BUH415DI
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BUH713
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BUH1015
BUH1015HI
BUH1215

BUK

Code
BUK444-500B
BUK444-600B
BUK444-800B
BUK445-600B
BUK446-800
BUK453-50A
BUK455-500A
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BUK456-60A
BUK456-800B
BUK456-1000B
BUK555-600B

BUL

Code
BUL38D
BUL310F1

BUT

Code
BUT11
BUT11A
BUT11AF
BUT11APX
BUT11AX
BUT11F
BUT12A
BUT12AF
BUT18AF
BUT56A

BUV

Code
BUV27H
BUV48A
BUV48B
BUV48C
BUV48CFI
BUV48FI
BUV90

BUW

Code
BUW11A
BUW12A
BUW13A
BUW13AF
BUW84
BUW85



01 SEMICONDUCTORS

BUX

Code
BUX10
BUX48
BUX48A
BUX67C
BUX80
BUX81
BUX84
BUX85
BUX86
BUX98C

BUY

Code
BUY69A

BUZ

Code
BUZ11A
BUZ31
BUZ41A
BUZ71A
BUZ73
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BUZ90
BUZ90A
BUZ90AF
BUZ91A
BUZ102AL
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BUZ906

CCS

Code
CCS5417
CCS5609
CCS5610
CCS8050
CCS8550
CCS9011
CCS9012
CCS9013
CCS9014C
CCS9015
CCS9016
CCS9018

CS

Code
CS7031

DTA

Code
DTA114EA
DTA114ES
DTA114TK.SMD
DTA114TS
DTA114YK.SMD
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DTA143TS
DTA144EA

DTB

Code
DTB114ES

DTC

Code
DTC114ES
DTC114YF
DTC114YK.SMD

DTC124ES
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DTC143ES
DTC143TS
DTC143XS
DTC144ES
DTC144EU.SMD
DTC144WU.SMD

DTD

Code
DTD114TS
DTD123YS

FDA

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FDA18N50

FJAF

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FJP

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FK

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FQA

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FQP

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FQPF

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FS

Code
FS3KM18A
FS4KM-12A
FS5KM-10A
FS10KM-10A
FS10SM18A

GT

Code
GT30J322
GT60N321

IRF

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IRF1BC30G
IRF530N
IRF540
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IRF620
IRF630
IRF634
IRF640
IRF644
IRF730
IRF730A
IRF740A

IRF740B
IRF822
IRF830
IRF830B
IRF840
IRF1404
IRF3205
IRF3710
IRF9520N
IRF9530
IRF9540N
IRF9610
IRF9620
IRF9630
IRF9640

IRFBC

Code
IRFBC30
IRFBC40

IRFD

Code
IRFD110

IRFIB

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IRFIB7N50A

IRFP

Code
IRFP064N
IRFP140N
IRFP240
IRFP240A
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IRFP450
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IRFP460
IRFP9140N
IRFP9240

IRFPC

Code
IRFPC40
IRFPC50
IRFPC60

IRFS

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IRFS630A
IRFS640
IRFS9630

IRFU

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IRFU9024N

IRFZ

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IRLU

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IRLU024N

IXGR

Code
IXGR60N60C2

J

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J6810
J6810D
J6920
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KRA

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KRA103M

KSC

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KSC2330
KSC2331.SC-51
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KSC5030F
KSC5039F
KSC5386

KSD

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KSD5703

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KTA

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KTD

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KTD1414

MD

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MD2009DFX

MJ

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MJ802
MJ1000
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MJ4035
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MJE

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MJW

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MP

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MP1620

MPS

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MPSA

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MRF

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NA

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NA31

ON

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ON4959

P

Code
P3NC60FP
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P6N60
P7N60B
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RJK

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RJK5020

S

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S2000A
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SGSF

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SPP

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SPP20N60C3

SSH

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SSH6N80
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SSP

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SSP10NK80ZFP
SSP20N60S5

SSS

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SSS4N60A
SSS20N60.INSULATED

ST

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ST1802HI
ST1803DHI
ST2009DHI
ST2310DHI
ST2310HI

STH

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STP

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STP10NK80ZFP
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STP14NK50ZFP
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STP16NE06FP.INSUL.
STP20N06-INS
STP60N06

STW

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TIP

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TOP

Code
TOP201YAI
TOP202YAI
TOP203YAI
TOP204YAI
TOP209P
TOP210PF1
TOP214AYI
TOP223Y
TOP224Y
TOP225YN
TOP227Y
TOP234Y
TOP243PN
TOP245PN.(DIL)
TOP245Y
TOP246Y
TOP247Y
TOP248Y
TOP249Y

TT

Code
TT2140
TT2142
TT2170
TT2190

UN

Code
UN1111
UN1112
UN1212

W

Code
W12NA60



01 SEMICONDUCTORS

→ Semiconductors

↓ IC's

IC LISTING INTRO

See List below for our current IC listing.
Note: This list is continually being updated!
Please contact us if you can not find your required IC.



1L

Code
1L0380R-4PIN

1M

Code
1M0365R-4PIN
1M0380R
1M0565R
1M0680R
1M0880

2S

Code
2S0680
2S0880-5PIN

3S

Code
3S0680RF-5PIN
3S1265R-5PIN

5H

Code
5H0165R-4PIN

5L

Code
5L0165R-8PIN
5L0265R-4PIN
5L0365R-4PIN
5L0365R-8PIN
5L0380R-4PIN
5L0380R-8PIN

5M

Code
5M02659RN-8PIN
5M0265R
5M0365R-4PIN
5M0365R-8PIN
5M0380R-4PIN

5Q

Code
5Q0565RT-5PIN
5Q0765RT-5PIN
5Q1265RF-5PIN
5Q1265RT-5PIN
5Q1565RF-5PIN

5S

Code
5S1265R

14DN

Code
14DN348E
14DN363

24C

Code
24C01
24C01A
24C01P
24C02
24C02P
24C08A
24C16WP
24C256

27C

Code
27C256-12
27C512-10

64

Code
6458D
6458S

74

Code
7404
7405
7406
7407
7425
7438

74HC

Code
74HC00
74HC02P
74HC04
74HC10N
74HC14P
74HC74N
74HC85P
74HC86AP
74HC123AN
74HC139P
74HC193P
74HC374P
74HC573P
74HC595
74HC4066P

74HCT

Code
74HCT04E

74LS

Code
74LS00
74LS01P
74LS02
74LS03
74LS04
74LS08
74LS10

74LS21
74LS27
74LS28
74LS32
74LS47
74LS74
74LS86
74LS90
74LS92
74LS93
74LS112
74LS138
74LS145
74LS151
74LS155
74LS161
74LS164
74LS166
74LS174
74LS191
74LS192
74LS193
74LS194
74LS221N
74LS240
74LS241
74LS243
74LS244
74LS245
74LS257
74LS258AN
74LS273
74LS365AN
74LS373
74LS374N
74LS377
74LS393
74LS541N

74S

Code
74S00
74S04
74S08
74S11
74S32
74S64
74S74
74S112
74S138

85C

Code
85C72/P

93C

Code
93C46CB3

626A

Code
626A2205KWMCC

4000 CMOS IC

Code
4001
4002
4006
4008
4009
4010
4011

4013
4015
4016
4017
4018
4019
4020
4022
4023
4024
4025
4027
4028
4029
4030
4033
4035
4041
4046
4047
4049
4050
4051
4052
4053
4060
4066
4066BF.SMD
4069
4070
4071
4072
4073
4075
4076
4077
4078
4081
4082
4085
4086
4093
4094
4094BCF.SMD
4503
4510
4518
4520
4528
4555
4556
4558D
4558G.SMD
4558S
4584
4585
40097
40106

A

Code
A1019.SMD
A1034

ADXT

Code
ADXT64
ADXTPLUS

AH

Code
AH1202

**AM****Code**

AM26LS31PC
AM26LS32PC
AM5868S.SMD

AN**Code**

AN80T05
AN115
AN214Q
AN217
AN236
AN240P
AN252
AN262
AN277
AN278
AN302
AN303
AN305
AN307
AN318
AN355
AN360
AN362
AN608
AN610P
AN612
AN1358
AN3215K
AN3311K
AN3312
AN3313
AN3320K
AN3331K
AN3386NK
AN3792
AN3794
AN3795N
AN3810K
AN3811NK
AN3812K
AN3814K
AN3821K
AN3822K
AN3830K
AN3990K
AN5010
AN5020
AN5025K
AN5026K
AN5033
AN5034
AN5043
AN5071
AN5132
AN5135NK
AN5138NK
AN5150N
AN5151N
AN5179K
AN5192K-B
AN5195K-B
AN5195K-C
AN5198K
AN5250
AN5256
AN5260
AN5262
AN5265
AN5270
AN5274
AN5275
AN5277
AN5410
AN5421

AN5431N

AN5435

AN5436N

AN5510

AN5512

AN5515

AN5521

AN5522

AN5523

AN5534

AN5539

AN5600K

AN5601K

AN5606K

AN5612

AN5615

AN5620X

AN5622

AN5625N

AN5630

AN5650

AN5693K

AN5701N

AN5715K

AN5733

AN5750

AN5753

AN5763

AN5766K

AN5790N

AN5836

AN5855K

AN5856K

AN5858K

AN5862K

AN5891K

AN5900

AN6209

AN6248

AN6250

AN6263

AN6306

AN6308

AN6310

AN6326N

AN6340

AN6341N

AN6342N

AN6343

AN6344

AN6346N

AN6350

AN6357N

AN6359N

AN6360

AN6362

AN6387

AN6391NK

AN6500

AN6550

AN6551

AN6553

AN6554

AN6554NS.S/FACE.MN

AN6555

AN6557

AN6562

AN6610

AN6650

AN6651

AN6671K

AN6677

AN6821

AN6873N

AN6877

AN6878

AN6881

AN6884

AN6912

AN6913

AN6914

AN7025K

AN7062N

AN7072

AN7108

AN7112E

AN7114E

AN7115E

AN7116

AN7118

AN7125

AN7130E

AN7131

AN7133N

AN7134N

AN7135

AN7140

AN7141

AN7145M

AN7147N

AN7148

AN7149N

AN7154

AN7156N

AN7158N

AN7161N

AN7164

AN7166

AN7168

AN7169

AN7170

AN7171K

AN7173K

AN7174K

AN7177

AN7178

AN7190K

AN7191K

AN7195K

AN7205

AN7213

AN7220

AN7223

AN7225

AN7226

AN7254

AN7256

AN7273

AN7310

AN7312

AN7320

AN7332S.SMD

AN7410N

AN7411

AN7414

AN7420

AN7470

AN7522N

AN7523N

AN7551Z

AN7591

AN7805R

AN7806

AN7812

AN7818F

AN8021L

AN8377N

AN8389S.SMD

AN17821A

AN17823A

AN17830A

AN17832A

AP**Code**

AP1501A-ADJ

APU**Code**

APU2470

AS**Code**

AS15-G.SMD

BA**Code**

BA12T
BA226
BA235
BA301
BA311
BA313
BA314
BA318
BA328
BA333
BA335
BA336
BA340
BA343
BA403
BA516
BA518
BA526
BA527
BA532
BA536
BA546
BA618
BA631
BA656
BA658
BA707
BA715
BA718
BA728.DIL
BA728N.SIL
BA823
BA855A
BA867
BA1310F
BA1330F.SMD
BA1332L.SIL
BA1404
BA1604
BA3121
BA3304
BA3308
BA3312N
BA3406L
BA3408
BA3416BL
BA3426AS
BA3503F.SMD
BA3505F.SMD
BA3520
BA3521
BA3706
BA3812L
BA3822LS
BA3824LS
BA3904A
BA3918
BA3920
BA4220
BA4236L
BA4402
BA4422AN
BA4560



01 SEMICONDUCTORS

BA4906
BA5101
BA5102A
BA5115
BA5208AF.SMD
BA5402A
BA5406
BA5412
BA5413
BA5415A
BA5416
BA5417
BA5810FP.SMD
BA5813FM.SMD
BA5814FM.SMD
BA5815FM
BA5823FM.SMD
BA5833FM.SMD
BA5936S
BA5941FP.SMD
BA5947FP.SMD
BA5954FP.SMD
BA5960FS.SMD
BA5974FP
BA5979S
BA6104
BA6109
BA6121
BA6122A
BA6124
BA6125
BA6137
BA6144
BA6149LS
BA6198FP.SMD
BA6208
BA6209
BA6218
BA6219B
BA6220
BA6222
BA6227
BA6229
BA6238A
BA6247
BA6248
BA6259N
BA6280AF.SMD
BA6287F.SMD
BA6290A
BA6294
BA6296FP.SMD
BA6297AFP.SMD
BA6299FP.SMD
BA6302A
BA6303
BA6304
BA6305
BA6328
BA6334
BA6353S
BA6392FP.SMD
BA6396FP.SMD
BA6397FP.SMD
BA6398FP
BA6411
BA6413
BA6418N
BA6430S
BA6432S
BA6435S
BA6439P
BA6439S
BA6566
BA6664FM.SMD
BA6790FP.SMD
BA6870S
BA6887V3

BA6898FP.SMD
BA6956AN
BA6993.DIL
BA7004
BA7007
BA7021
BA7022A
BA7023L
BA7024
BA7039
BA7125L
BA7230LS
BA7267S
BA7604N
BA7710S
BA7720S
BA7740S
BA7743S
BA7751ALS
BA7752LS
BA7755
BA7765AS
BA7766AS
BA7767AS
BA7795LS
BA8205
BA10324A
BA10339
BA10358N
BA10393N.SIL
BA12004
BA15218D.DIL
BA15218N.SIL

BD

Code
BD9897FS.SMD

BL

Code
BL2710.REG.BLK
BL2711N.REG.BLK

BU

Code
BU2114
BU2735AS
BU2751S
BU2753AS
BU2845S
BU2872AK.SMD
BU2896AK.SMD
BU2896K.SMD
BU2899K.SMD
BU3738F.SMD
BU4094BCF.SMD

CA

Code
CA733
CA1310
CA1391E
CA3046

CAT

Code
CAT93C46P

CD

Code
CD1031CS
CD1366CP
CD8256CZ
CD9632CS

CIC

Code
CIC7018E
CIC9140BE

CM

Code
CM0765R.6.PIN

CNX

Code
CNX62A
CNX82A
CNX83A

CNY

Code
CNY17F2

CVA

Code
CVA2400A
CVA2411TX

CX

Code
CX131A
CX138
CX141
CX150B
CX157
CX523-117P
CX804
CX20061
CX20106A
CX20126
CX20187
CX20198
CX22008
CX22009
CX23025

CXA

Code
CXA1044P
CXA1081.DIL
CXA1081M.SMD
CXA1082BQ.SMD
CXA1198AP
CXA1213BS
CXA1213S
CXA1238S
CXA1279AS
CXA1291P
CXA1372AQ.SMD
CXA1372S
CXA1587S
CXA2050S
CXA2100AQ.SMD
CXA2139S
CXA2581N.SMD
CXA8008P

CXD

Code
CXD1125Q.SMD
CXD1130Q.SMD
CXD1135Q.SMD
CXD2500AQ.SMD

D

Code
D2C2KEY
D2EKEY

DBL

Code
DBL1009
DBL2002

DH

Code
DH0165

DL

Code
DLO365R

DM

Code
DM0265R
DM0365R
DM0565R

DMB

Code
DMB3520VV
DMB3521SY

DPM

Code
DPM001TIA

DTS

Code
DTS02P-A4
DTS03NPA3

EA

Code
EA7317B

F

Code
F9222L

FA

Code
FA3647
FA5304
FA5311

FSD

Code
FSD200
FSD210

FSDH

Code
FSDH0165

GL

Code
GL3120

HA

Code
HA178M05P
HA178M08
HA1125
HA1137W
HA1147
HA1154
HA1156W
HA1196
HA1197
HA1199
HA1308
HA1338



HA1350S
HA1364
HA1366W
HA1366WR
HA1367
HA1377A
HA1384
HA1389R
HA1392
HA1398
HA1406
HA11211
HA11219
HA11223W
HA11225
HA11226
HA11227
HA11235
HA11238
HA11401
HA11414
HA11423
HA11440A
HA11701
HA11703
HA11711
HA11715
HA11724
HA11725
HA11741
HA11741NT
HA11744
HA11744NT
HA11745
HA11745NT
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HA11857NT
HA12003
HA12005
HA12010
HA12013
HA12016
HA12038NT
HA12045
HA12046
HA12047
HA12074NT
HA12135A
HA12411
HA12413
HA12427AV
HA12428V
HA12430
HA13001
HA13007
HA13108
HA13117
HA13118
HA13119
HA13127
HA13128
HA13150A
HA13152
HA13153A
HA13155
HA13157
HA13158A
HA13403V
HA13408
HA13412
HA13426
HA13431
HA13441
HA13491S.SMD
HA17324
HA17339
HA17358
HA17384PS

HA17393
HA17431P/PA
HA17458PS
HA17524P
HA17555
HA17558
HA17741
HA17806
HA17808
HA17812
HA17815

HD

Code
HD14013BP
HD14052P
HD14081BP
HD14538BP
HD38980C
HD38991A
HD38993A

HG

Code
HG5412

HIS

Code
HIS0169C

HM

Code
HM9102

ICE

Code
ICE1QS01.DIL
ICE2A0565
ICE2A265
ICE2A365
ICE2A765P2
ICE2B0365
ICE2B0565
ICE2B265
ICE2BS01
ICE2QS01.DIL
ICE3B0365
ICE3B3065P
ICE3BR0665J
ICE3BR1065JF

IR

Code
IR3N05
IR2109
IR2111
IR2113
IR2403

IRL

Code
IRL3803

JRC

Code
JRC2352D
JRC2902
JRC2904
JRC3403AD
JRC4419A
JRC7815A
JRC10311

JU

Code
JU0004

JU0005
JU0006
JU0012
JU0047
JU0076
JU0114
JU0116
JU0130
JU0168

KA

Code
KA1H0165R
KA1L0380R-4PIN
KA1M0365R-4PIN
KA1M0380R
KA1M0565R
KA1M0680R
KA1M0880
KA2S0680
KA2S0880-5PIN
KA3S0680RF-5PIN
KA3S1265R-5PIN
KA5H0165R-4PIN
KA5L0165R-8PIN
KA5L0265R-4PIN
KA5L0365R-4PIN
KA5L0365R-8PIN
KA5L0380R-4PIN
KA5L0380R-8PIN
KA5M02659RN-8PIN
KA5M0265R-5PIN
KA5M0365R-4PIN
KA5M0365R-8PIN
KA5M0380R-4PIN
KA5Q0565RT-5PIN
KA5Q0765RT-5PIN
KA5Q1265RF-5PIN
KA5Q1265RT-5PIN
KA5Q1565RF-5PIN
KA5S1265R-PIN
KA33V
KA78R05
KA78R08
KA78R12
KA78R15
KA78R33
KA278R05
KA278R09
KA278R12
KA278R33
KA324
KA386
KA431Z
KA555
KA1222
KA2101
KA2102A
KA2130A
KA2131
KA2133
KA2138
KA2142
KA2154
KA2192
KA2201
KA2206
KA2209A
KA2209B
KA2212
KA2213
KA2220
KA2221
KA2224
KA2261
KA2263
KA2264.SIL
KA2264S.SMD

KA2295Q
KA2402
KA2651
KA2914A
KA2915
KA2919
KA2922
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KA2945
KA2983
KA3082
KA3213
KA3525A
KA3842
KA3842A
KA3842B
KA3842P
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KA3872
KA3882
KA3884
KA4558D.DIL
KA4558S.SIL
KA7302
KA7500C
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KA7552
KA7630
KA7631
KA7632
KA8301
KA8306
KA8320Q.SMD
KA8321Q.SMD
KA8322.SMD
KA8325Q.SMD
KA8334B.SMD
KA9201.SMD
KA9220C.SMD
KA9257
KA22134
KA22135
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KA22241
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KA22261
KA22291
KA22292Q
KA22427
KA22471
KA22495

KIA

Code
KIA78D05F.SMD
KIA78R12PI
KIA78R15API
KIA278R05PI
KIA278R12PI
KIA278R33P
KIA324
KIA358N
KIA494
KIA567P
KIA3842P
KIA4558D
KIA4558S
KIA6067N
KIA6205H
KIA6210AH
KIA6221H
KIA6225S
KIA6268P
KIA6269P
KIA6280H



01 SEMICONDUCTORS

KIA6281H
KIA6282K
KIA6283K
KIA6299H
KIA7207AP
KIA7217
KIA7233P
KIA7640AP
KIA7705P
KIA7805
KIA7806
KIA7809
KIA7812
KIA7815A
KIA7818API
KIA7905PI
KIA7915PI
KIA8127N
KIA8210
KIA75558P
KIA75902P

KKZ

Code
KKZ09

KWMCC

Code
KWMCC626A2205

L

Code
L200C
L487
L4805CV
L4810CV
L4885CV
L4960
L5631
L6562N
L6598
L6598D.S/FACE
L6599D.SMD
L6599N.DIL

LA

Code
LA1130
LA1135
LA1140
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LA1180
LA1201
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LA2100
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LA3120

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LA3400N
LA3401
LA3600
LA3607
LA4032P
LA4050P
LA4051P
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LA4510
LA4555
LA4557
LA4570M.SMD
LA4571M.SMD
LA4592.SMD
LA4597
LA4598
LA4600
LA4601N
LA4603
LA4620
LA4625
LA4628
LA4630N

LA4631
LA4663
LA4700
LA4705
LA4708N
LA4725
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LA4763
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LA5004
LA5004M.SMD
LA5112N
LA5512N
LA5521D
LA5522
LA5523
LA5524.DIL
LA5524M.SMD
LA5525
LA5530
LA5610
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LA5668
LA5700
LA6324
LA6358N
LA6393S
LA6458D
LA6458S
LA6500
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LA6515
LA6520
LA6524
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LA6537
LA6560.SMD
LA7016
LA7018
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LA7034
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LA7685J
LA7687A
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LA7846N
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LA7856
LA7876
LA7900
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LA7910
LA7913
LA7920
LA7930
LA7952
LA7954
LA9200N.SMD
LA9215
LA47505
LA47532
LA73054.SMD
LA76810A
LA76818A
LA76828A
LA76832
LA78040N
LA78041
LA78045

LAG

Code
LAG600

LB

Code
LB1214
LB1216
LB1258
LB1290
LB1403N
LB1405
LB1415
LB1416



LB1423
LB1436
LB1450
LB1601
LB1620
LB1622
LB1640
LB1641
LB1643
LB1645N
LB1648
LB1650
LB1651
LB1943N

LC

Code
LC3517AM-15.SMD
LC3517BML-15.SMD
LC4071B
LC4077B
LC4966
LC7060
LC7131
LC7132
LC7207D
LC7250
LC7267
LC7351
LC7432
LC7512
LC7533
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LF

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LM

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LM338K

LM339N
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LMM

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LT

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LT1071CT
LT1073CN8-5
LT1083CP
LT1084CT

LTV

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LV

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M

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M37417M4-161SP

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M53274



01 SEMICONDUCTORS

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M54819L
M54832P
M54889P
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M67754

MA

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MA1050
MA2830
MA2831
MA3810
MA3910
MA8910
MA8920

MB

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MB3106
MB3712
MB3713
MB3731
MB3756
MB3759.DIL
MB3759FP.SMD
MB4204M
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MB8841-1363J
MB88301A
MB88303
MB88305
MB88401-161K
MB88401-206M
MB88401-217L
MB88401-232M
MB88401-233K
MB88501-158M
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MB88501-448M
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MB88521-140M
MB88525-152M
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MB88536-122L

MC

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MC1327
MC1330A2P

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MC1489P
MC1496P
MC3302P
MC3361BP
MC3403P
MC3423P
MC3486N
MC3487
MC5156
MC13020P
MC13309T3
MC14015
MC14106BCP
MC14410P
MC33260P
MC34064P5
MC34067P
MC44603AP-14PIN
MC44603AP-16PIN
MC44604P-16PIN
MC44608P40
MC145026P
MC145027P
MC145028P
MC145162P

MCZ

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MCZ3001D
MCZ3001DA
MCZ3001DB

MD

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MD1422N.S/MNT

MDA

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MDA2060
MDA2062-ITT

MIK

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MIK386

MIP

Code
MIP0253
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MK

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MK1210
MK5173N

MM

Code
MM5316
MM5387
MM5456N

MN

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MN1220T

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MN1430TJ
MN2488
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MN3207
MN6163A
MN6168VIA
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MN15151TKV
MN15245KWC
MN15245SAY-1
MN15261VQY
MN15283VJU
MN15311VBS
MN15362VBR
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MN15823VGQ
MN1873284TK

MOC

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MOC3021
MOC3041
MOC3042
MOC3061
MOC8104

MR

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MR1722
MR2920
MR4020
MR6710

MSP

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MSP1250-ADJS

MX

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MX5503

MZ

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MZ1540

NC

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NC8061
NC8500

NE

Code
NE542N
NE545B
NE555D-SOP-8P.SMD
NE555N
NE556
NE558C
NE645N
NE657N
NE5044
NE5532P
NE5534P
NE5535N

NJM

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NJM072D
NJM79M15A
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NN

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NN5099K

PA

Code
PA3012

PAC

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PAC007A
PAC008A
PAC009A

PAL

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PAL003A
PAL005A
PAL006A
PAL007A
PAL007B
PAL007C

PC

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PC111S
PC113
PC120
PC121FY
PC123
PC713
PC714
PC813
PC814
PC816
PC817

PCA

Code
PCA84C440P-401
PCA84C640P-015
PCA84C640P-133
PCA84C640P-158
PCA84C640P/030
PCA84C640P/049
PCA84C640PSAC2
PCA84C841/076S1
PCA8581P

PCF

Code
PCF8574T.SMD
PCF8581P
PCF8582AP

**PLS**

Code
PLS105N

PQ

Code
PQ05RD11
PQ05RF1
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PQ05RF11
PQ05RR12
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PQ09RD11
PQ3RD13
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PQ12RF21

PS

Code
PS2561.PHOTO.COUP
PS6002A

RSN

Code
RSN35H1A-P
RSN35H2
RSN307M42
RSN307N44A-P
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RSN309W44B
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RSN311W64
RSN312H24
RSN313H25
RSN314H41
RSN315H42B
RSN3403
RSN3502
RSN6000B

S

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S431C
S2560A-2
S25610

SAA

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SAA1000
SAA1010
SAA1024
SAA1025
SAA1124
SAA1290-02
SAA1293-03
SAA3006P
SAA3010P
SAA3027P
SAA5010
SAA5012
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SAA5231
SAA5243P/E

SAB

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SAB3013
SAB3035

SAF

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SAF1032P
SAF1039

SAP

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SAP16N
SAP16P
SAP17N
SAP17P

SAS

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SAS570S
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SAS590
SAS660
SAS670

SDH

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SDH209B

SE

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SE014
SE090
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SE135N
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SF

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SF1668

SFH

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SFH617A

SG

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SG613
SG3081J
SG3524AN
SG3525A
SG3842

SI

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SI3052V
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SI7300A
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SI18751
SI18752

SK

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SK18751
SK18752

SLA

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SMR

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SN

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SS

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SS1001

ST

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ST02

STA

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STK

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01 SEMICONDUCTORS

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STR

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STR370
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STR41090
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STRA

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STRA6059H
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STRA6351
STRA6359

STRD

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STRD1005T
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STRD6802

STRF

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STRF5653
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STRG

Code
STRG5623
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STRM

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STRNW

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STRS

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STRS5141G
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STRT

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STRW

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STRX

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STRX6454
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STRZ

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STRZ2062
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STRZ4479

STV

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STV2238D.SMD
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STV8164
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STV9306
STV9306A
STV9325
STV9379.IC
STV9379A
STV9379FA

SVI

Code
SVI3100A(-B)
SVI3101C(-D)
SVI3101D
SVI3102D

SVS

Code
SVS-866

SZM

Code
SZM-137M3
SZM-137PV
SZM-143RV

TA

Code
TA78L006AP
TA79L006P
TA1215AN
TA1216AN
TA1219AN
TA1222BN
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TA2020-020
TA2024.SMD
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TA7060P
TA7061AP
TA7061BP
TA7071P
TA7073AP
TA7074P
TA7089P
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TA7402P
TA7504P
TA7504S
TA7506P
TA7604AP



01 SEMICONDUCTORS

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TA7608CP
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TA7612
TA7613
TA7616P
TA7621P
TA7622AP
TA7628
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TA7632P
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TA7636
TA7639P
TA7640AP
TA7644CP
TA7654AP
TA7657P
TA7658P
TA7666P
TA7668BP
TA7672P
TA7673
TA7676AP
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TAA

Code
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TB

Code
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TC31018AP
TC89101

TCA

Code
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TCA650
TCA730
TCA750
TCA800
TCA810A
TCA830S
TCA940

TCM

Code
TCM80A

TD

Code
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TD6359N
TD6360N
TD6710AN
TD62064AP
TD62083AP
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TD62501P
TD62706P

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TDA1013A
TDA1013B
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TDA1024
TDA1047
TDA1054M
TDA1060
TDA1082
TDA1083
TDA1170N
TDA1170S
TDA1175
TDA1175P
TDA1180P



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TDA1522	TDA3560-PHILLIPS	TDA4866	TDA7440D.SMD
TDA1524A	TDA3561A	TDA4866J	TDA7454
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TDA1545A	TDA3566	TDA4950	TDA7496
TDA1552Q	TDA3566A	TDA5850	TDA7496L
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TDA1557Q	TDA3603P	TDA6101Q	TDA7560
TDA1558Q	TDA3651	TDA6103Q	TDA7560A
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TDA1576	TDA3651AQ	TDA6107JF	TDA7851A-25PIN
TDA1578A	TDA3652	TDA6107Q	TDA7851A-27PIN
TDA1670A	TDA3652AQ	TDA6108JF	TDA8133
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TDA1771	TDA3653C	TDA6109JF	TDA8138
TDA1870A	TDA3653CQ	TDA6111Q	TDA8138A
TDA1904	TDA3654-KIT.	TDA6118JF	TDA8139
TDA1905	TDA3654.IC	TDA6120Q	TDA8143
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TDA2007	TDA4433	TDA7072A	TDA8179S
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TDA2020	TDA4445B	TDA7222A	TDA8213
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TDA2030V	TDA4470.SMD	TDA7231A	TDA8215B
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TDA2555	TDA4600	TDA7267-8P	TDA8360
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TDA2582	TDA4605-2	TDA7295	TDA8366N3
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TDA2595	TDA4660	TDA7318D	TDA8375A



01 SEMICONDUCTORS

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TDA8376

TDA8380A

TDA8395

TDA8405

TDA8415

TDA8416

TDA8417

TDA8424

TDA8425

TDA8440

TDA8442

TDA8443A

TDA8444P

TDA8505

TDA8512J

TDA8560Q

TDA8561Q

TDA8562Q

TDA8563Q

TDA8565Q

TDA8567Q

TDA8568Q

TDA8571J

TDA8722T.SMD

TDA8732

TDA8741

TDA8745

TDA8841SI

TDA8842

TDA8843

TDA8844

TDA8844-S1

TDA8844/N2

TDA8855H.SMD

TDA8885H.SMD

TDA8920BJ

TDA8922BJ

TDA8944AJ

TDA8944J

TDA8946J

TDA8947J

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TDA9102C

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TDA9321H.SMD

TDA9330H.SMD

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TDA9361PS/N2/4I088

TDA9370PS/N2/A/120

TDA9381PS/0838

TDA9535

TDA9800

TDA9801T.SMD

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TDA9821

TDA9840

TDA9852

TDA9859

TDA9859H.SMD

TDA9860

TDA9870A/V2

TDA9873H.SMD

TDA9875A

TDA9885TS.SMD

TDA16833

TDA16846P

TDA16888G.SMD

TDB

Code

TDB1030

TEA

Code

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TEA1523P

TEA1524P

TEA2014A

TEA2018A

TEA2024

TEA2025

TEA2025B

TEA2028B

TEA2029C

TEA2031A

TEA2037A

TEA2130

TEA2164

TEA2165

TEA2165A

TEA2260

TEA2261

TEA2262

TEA3717DP

TEA5101A

TEA5101B

TEA5114A

TEA5170

TEA5550

TEA5570

TEA5581

TEA6415C

TEA7530DP

TEA8172

TL

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TL061CN

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TL064CN

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TL072CN

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TL074CN.DIL

TL081CP

TL082

TL084CN

TL431CLP

TL431CP.DIL

TL489CP

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TL594CN

TL3842

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TOP

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TOP223P

TPA

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TSC

Code

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U410B

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UPB

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UPC566H

UPC574J

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UPC576H

UPC577H

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UPC587C2

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UPC1028

UPC1031H2

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UPD75208CW-105
UPD75208CW-219

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Code
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VIPER20A-8PIN
VIPER22A
VIPER100
VIPER100ASP.SMD

VPD

Code
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X

Code
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X0037CE
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XL

Code
XL24C04P

XLU

Code
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XLU2899K.SMD

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XRA7039

Z

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Z80A-CPU
Z80A-CTC
Z80AP10

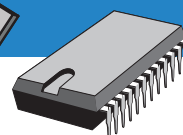
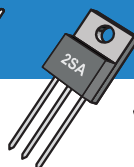
DATA AVAILABLE:

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01 SEMICONDUCTORS

→ Amplifier Module

AMPLIFIER MODULE

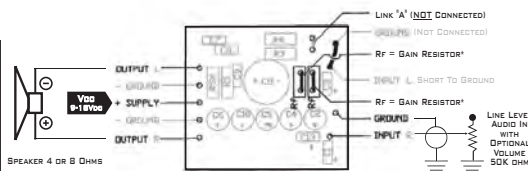
This is a pre-built dual audio power amplifier module. It is designed for universal use as a high power, low distortion, low noise replacement amp and has simple installation. This module can operate from 9Vdc to 25Vdc (12V-18V Nom) making the EP22 suitable for use in many different replacement or project applications. At 13.2V the IC draws about 2A full volume. Very compact at only 32 x 36 x 20mm. The IC tag is earthed so it mounts direct to the chassis or heatsink (required but not supplied). Heat dissipation is around 25W. The IC is a genuine Toshiba Chip boasting impressive performance and phenomenal device protection! (Over voltage, Thermal, Short circuit, etc.) This incredible little module operates in high power BTL mode for a mono output of 22Wrms into 4ohm (11W into 8ohm), or can be quickly modified to operate in stereo mode giving 5.5W x2 into 4ohm (requires the addition of 2x 1000µf isolation capacitors). Changing the gain resistors will enable any sensitivity on the input, from mic to CD (pre-set to line level input). You will find the EP22 easy to set up, efficient and stable. Supplied wired in BTL mode, includes instructions. May require additional components depending on application.

- TA7280P
- 9V - 25Vdc max
- 12V-18Vdc Nom.
- Stereo 5.8Wrms
- (Requires Isolation Caps)
- BTL Mono 22Wrms
- Requires Heatsink
- Line Level I/P
- Change gain R
- 32x36x20mm

Code
EP22



HIGH POWER BTL MONO OPERATION 22Wrms (4ohm)

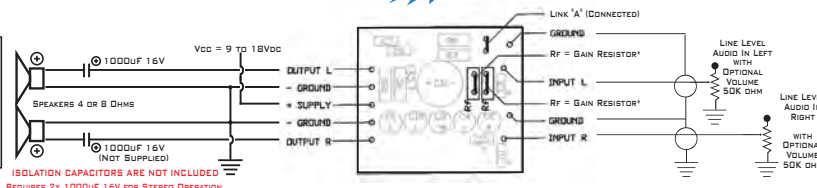


Mounts Direct
To Chassis!

**HEATSINK
REQUIRED!**
About 5" x 6" or
25cm² Surface area



STEREO MODE 5.8W X2 INTO 4 ohm For this mode you have to make some modifications:



→ Tools & Service Aids

SMD REWORK STATION

HOT AIR BLOWER WITH GAUGE

New improved model featuring an updated mechanism and heating system Consistent temperature of hot air is afforded by this new design Adjustable airflow volume control with direct analogue airflow meter This improved performance provides easier, quicker, professional results New automatic cool-down function improves the heater elements life time The new modern design unit is also more compact and fully ESD safe Air blow capacity is adjustable from 5 to 20 Litres per minute Hot Air Temperature is adjustable from 100°C to 420°C (using A1126B) A comprehensive range of air nozzles and parts are available separately.

Code
FR801



ILLUMINATED MAGNIFIERS

Can't read the small print?

Size	Code
50mm	IMG50
75mm	IMG75
110mm	IMG110



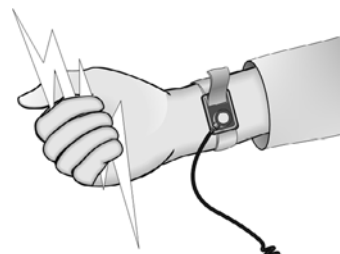
ELECTROSTATIC PROTECTORS

Don't zap things!

See Section 14 TOOLS & TEST EQUIPMENT for complete kits!

Wrist Strap

Code
ASW115





→ Tools & Service Aids

SERVICE AIDS IN A CAN

Description	Code
Rework Solder Flux non-corrosive free flux	SMFL200D
Circuit Board Cleaner. For heavy duty cleaning..	RF65



See Section 14 TOOLS & TEST EQUIPMENT

PRESS-TO-RESEAL PLASTIC BAGS

Clear plastic with write-on label. Order One To Receive A Bag Of One Hundred.

120x80mm Small

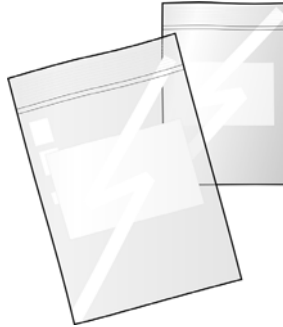
Code
PB128

170x100mm Medium

Code
PB1710

250x140mm Large

Code
PB2514

**FARADAY ANTI-STATIC BAGS****STATIC SHIELDING
STATIC DISSIPATIVE
100 BAGS PER PACK**

Industry standard tinted static bags. Metalised and 40% transparent. Heat sealable. Non-tear polycarbonate. Creates a Faraday cage envelope to protect contents from static fields. Order one to receive a bag of 100.



Size	Code
100x150mm	ASB46
150x200mm	ASB68
200x300mm	ASB812
250x350mm	ASB1014
300x400mm	ASB1216
375x450mm	ASB1518

**SILICONE HEAT COMPOUND****10g SYRINGE**

Code
RF44

10g TUBE

Code
SIL10

150g TUBE

Code
SIL150

50g SYRINGE

Code
SIL50

**HEAT TRANSFER COMPOUND JAPANESE OEM**

AS USED BY MOST ORIGINAL MANUFACTURERS

NOTE: SETS HARD LIKE GLUE.

Thermal failures continuing, even after using quality silicone heat compound, can still occur. This is caused by the heatsinks being just large enough for the very high thermal specification, leaving no overhead! For this situation you must use a very highly specified heat transfer compound.

Made in Japan. As used by most OEM.

Size	Code
150g	TSE3843W

**SOLDERING TOOLS**

Contains 6 double sided tools designed to carry out repairs professionally & quickly. Suitable for surface mount applications.

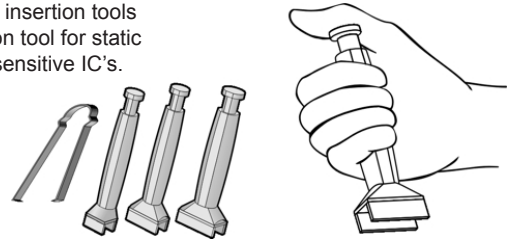


Code
SA10

IC TOOL SET

Consists of three insertion tools and one extraction tool for static free handling of sensitive IC's.

Code
ICT4

**IC STRAIGHTENER**

ANTI-STATIC
Double sided for LSI and ICs. Bends vertical so pins align. Ground terminal.

Code
ICS01

**PLCC IC EXTRACTOR**

For those delicate ICs with pins on all sides. This extractor first hooks under the diagonal corners then pulls upward evenly, removing the package without damage.



Code
CY850

SMD PICKUP TOOL

Helps lift & remove SMD ICs, etc. **HANDLE** supplied with Small wire. Suit Hakko Rework Stations (14).

Type	Code
Handle	B1438
Small	B1439
Large	B1440

**SOLDERING FLUX**

Size	Code
55ml	BS550

DISPENSERS

Description	Code
Bottle 55ml	BOT55E
Pen	PEN200



See Section 14 TOOLS & TEST EQUIPMENT



01 SEMICONDUCTORS

→ Cross-Reference Data

SEMICONDUCTOR WORLD DATA BOOKS

On how many occasions have you looked at a semiconductor and wondered if it is a transistor, triac or SCR ? Have you spent valuable time going through various data books looking for clues? Now we have the data books you require. These are in ALPHA-NUMERIC order regardless of whether the device is a transistor, semiconductor, SCR, TRIAC, IC or diode. The listing consists of a short description and where known, possible substitutions, thus finding information will be so much easier. Purchase both manuals together for a discount....

Volume 1

Contains listings on devices

A.....Z, eg. AD, BC, BCW,BCY, BD, BDW, BF, BLX, BS,BSP, BYW, CCS, FT, HD, HA,KSA, LA, LB, M, MC, MM, MPS,OA, OM, PN, SAB, SE, SFT,ST, TA, TSC, UA and many more.

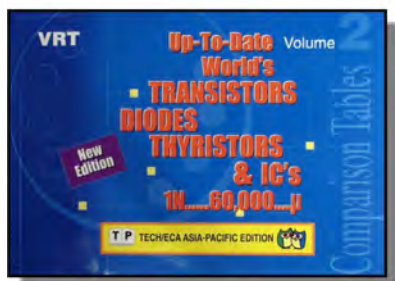
Code
MAN36



Volume 2

Contains listings on devices 1N.....60,000.....U eg. 1N, 1S, 2N, 2SA, 2SB,2SC, 2SB, 2SC, 2SD, 2SK, 3SK 3N, UPC and others.

Code
MAN37



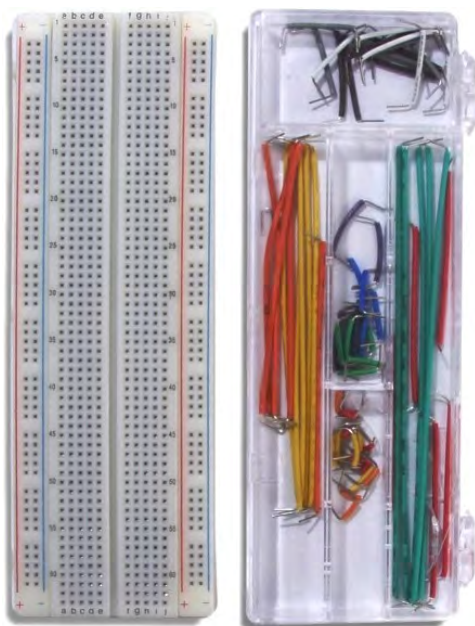
→ PCB & Bread Boards

PROTOTYPE BREADBOARD KIT

WITH WIRE KIT

Solderless terminal strip board with standard spacing for designing & experimenting with electronic circuits, etc. Horizontal strips for power and vertical for IC & component insertion. Includes pre-cut jumper lead kit in an easy storage container. 2.45mm spacing. 630+200 terminal holes.55x165mm. Adhesive back.

Code
U21J



→ PCB & Bread Boards

UNIVERSAL PROTOTYPE PCBs

High quality, pre-drilled printed circuit boards for experiments, prototypes, one-off projects, etc. All use 0.9mm drilled, 2.45mm spacing (10th").

BREAD BOARD TYPE

V strips and rails.

Size	Code
130x47mm	PCB111

DIP PACKAGE TYPE

Larger projects with ICs.

Size	Code
140x110mm	PCB112

MATRIX TYPE

Solder your own tracks.

Size	Code
160x115mm	PCB116

MINI BREAD BOARD

Duplicate your test layout.

Size	Code
72x47mm	PCB113

SINGLE DIP TYPE

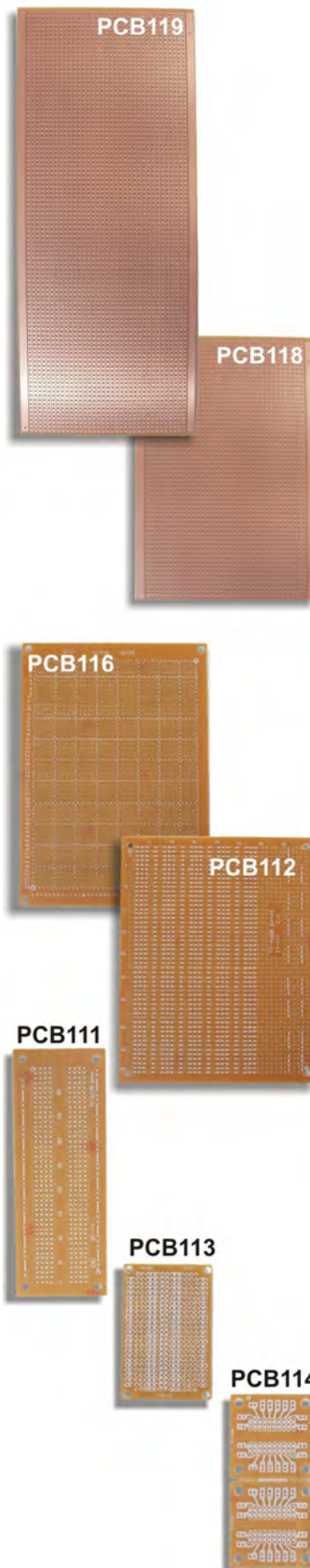
Split board for IC.

Size	Code
45x45mm x2	PCB114

STRIP BOARDS

Full length tracks.

Size	Code
250x100mm	PCB119
160x100mm	PCB118





→ Insulation Washers & Hardware

MICA WASHER

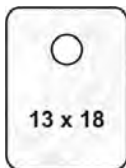
Heat resistant washers for transistor and IC placement. Don't forget the Silicone heat compound. Its important! Outer dimensions may differ slightly on stock.

NOTE: ORDER ONE TO RECEIVE A PACK OF TEN



12 X 3

Code
YC18



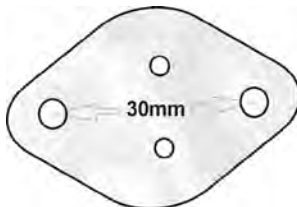
13 x 18

Code
YC16



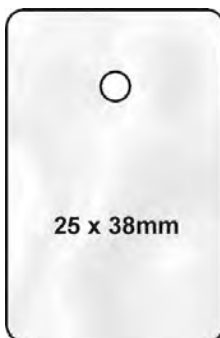
19 x 22

Code
YC35



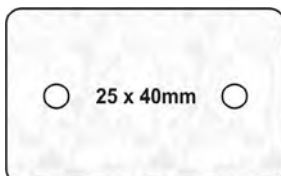
30mm

Code
YC41



25 x 38mm

Code
YC23



25 x 40mm

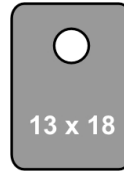
Code
YC90

SILICON WASHER

High thermal conductivity
0.3mm Grey 210°C 4KV

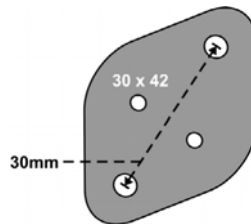
NOTE: ORDER ONE TO RECEIVE A PACK OF TEN

Code
SIL160



13 x 18

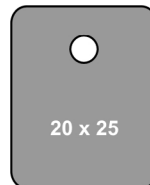
Code
SIL350



30 x 42

30mm

Code
SIL410



20 x 25

SILICON HEAT SHEET

Cut to size.
100 x 100 x 0.3mm

Code
SIL100



BLANK SHEET
Heat Resistant
Silicon Rubber
100 x 100mm

SILICON HEAT COMPOUND

Heat Transfer Compound
General Purpose

Size	Code
10g	SIL10
150g	SIL150



SILICONE HEAT COMPOUND

HANDY SYRINGE APPLICATOR
Quality heat transfer compound.

Size	Code
25ml / 50g	SIL50



NON-SILICON HEAT COMPOUND

Easy, no mess application.
Supplied in syringes

Size	Code
10ml	RF44
35ml / 70g	HTC35SL

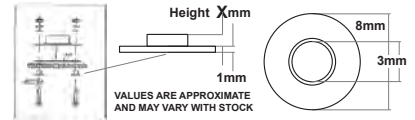


OTHER SERVICE AIDS
See Section 14

INSULATOR WASHERS

Heat resistant plastics. Suit most transistor and IC mountings. Outer lip dimensions may differ slightly from stock.

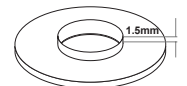
NOTE: ORDER ONE TO RECEIVE A PACK OF TEN



VALUES ARE APPROXIMATE
AND MAY VARY WITH STOCK

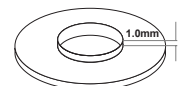
1.5mm WASHER

Code
YC13



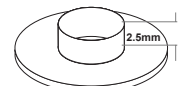
1mm WASHER

Code
YC20



2.5mm WASHER

Code
YC10



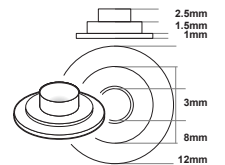
2mm WASHER

Code
YC31



STEPPED WASHER

Code
YC12



MOUNTING HARDWARE

Miscellaneous Nuts & Bolts suitable for heat sink applications.

NOTE: ORDER ONE TO RECEIVE A PACK OF TEN

METAL NUT

Code
YC85



METAL SCREW

Code
YC81



METAL WASHER

I/D	O/D	Code
3mm	6 to 8mm	YC83



PLASTIC SCREW

Code
YC80



PUSH-ON NUT

Code
YC87



SPRING WASHER

Code
YC84



TAGGED WASHER

Code
YC86





→ Diodes Zener

ZENER DIODES 0.5W

2.7 3.3 3.6 3.9 4.3 4.7 5.1 5.6 6.2 6.8 7.5 8.2
9.1 10 11 12 13 15 16 18 20 22 24 27 30 33 36
39 43 47 51 56 62 68 75 Volts.

Order as follows - .5 watt =.5Z + voltage, eg:

Description	Code
Example	.5Z3.3

ZENER DIODES 1W

2.7* 3.3 3.6 3.9 4.3 4.7 5.1 5.6 6.2 6.8 7.5 8.2 9.1
10 11 12 13 15 16 18 20 22 24 27 30 33 36 39 43
47 51 56 62 68 75 Volts.

Order as follows - 1 watt =1Z + voltage, eg:

Description	Code
*Exception:	1Z2.7
Example	1Z75

ZENER DIODES 5W

3.9 4.3 4.7 5.1 7.5 8.2 9.1 Volts, 10 11 12 13 15
16 18 20 22 24 27 30 Volts, 33 36 39 43 47 51 56
62 68 75 91 Volts.

Order as follows - 5 watt =5Z + voltage, eg

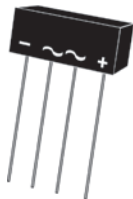
Description	Code
Example	5Z3.9
Example	5Z91

MORE ZENER DIODES
[As Specific Part No.s]
SEE NEXT PAGE...

→ Diodes Rectifiers

BRIDGE RECTIFIERS FLAT-PACK

PIV	Vrms	Amps	Code
200	140	1.5	KBP152
600	420	1.5	KBP156
400	280	4	KBL404
600	420	4	KBL406
200	140	6	KBU602
600	420	6	KBU606
1000	700	2	BL2-10

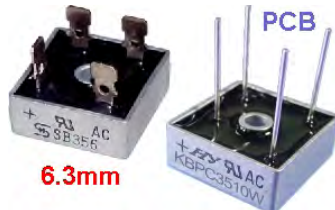
**BRIDGE RECTIFIERS HEAVY-DUTY**

420Vrms 35A 6.3mm

PIV	Code
600V	BP35-06

420Vrms 35A PCB

PIV	Code
600V	BP35-06W

**BRIDGE RECTIFIERS HEAVY-DUTY**

420Vrms 50A 6.3mm

PIV	Code
600V	BP50-06

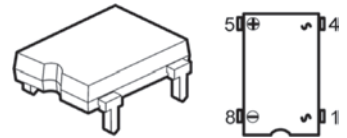
**BRIDGE RECTIFIERS BLOCK-PACK**

PIV	Vrms	Amps	Code
50	35	1.5	W005
400	280	1.0	W04
600	420	1.5	W06
50	35	3	SB305
200	140	3	SB320
600	420	3	SB360
200	140	6	SB603
600	420	6	SB605

**RECTIFIER BLOCK**

Used in VCRs etc.

Code
SIWBA60S

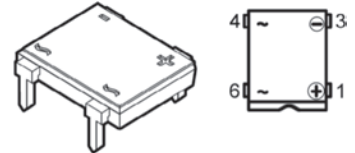
**RECTIFIER BLOCK**

1.5A, 200V, SMD Type

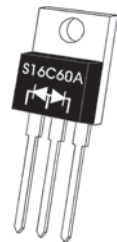
Code
DI102S

1.5A, 600V (DF06)

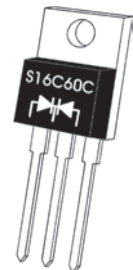
Code
DI106

**DIODE PACK 16A COMMON ANODE**

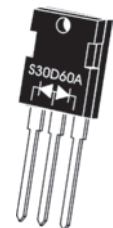
Description	Code
16 AMPS, 60 VOLTS Neg.	S16C60A
16 AMPS, 600 VOLTS Neg.	F16C60C

**DIODE PACK 16A COMMON CATHODE**

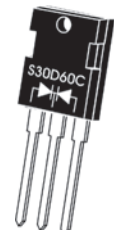
Description	Code
16 AMPS, 60VOLTS Pos.	S16C60C

**DIODE PACK 30A COMMON ANODE**

Description	Code
30 AMPS, 60 VOLTS Neg.	S30D60A

**DIODE PACK 30A COMMON CATHODE**

Description	Code
30 AMPS, 60 VOLTS Pos.	S30D60C

**PANASONIC MICROWAVE RECTIFIER**

As used in the newer "Inverter" type ovens. AESTRBV6206

Code
D20XB60

**Other Panasonic Inverter
SMPS parts - See Section 10
MICROWAVE COMPONENTS**





→ Triacs

GENERAL PURPOSE TRIACS

Current	Voltage	Code
4A	400V	BTB04-400
4A	600V	BTB04-600
6A	400V	BTB06-400
6A	600V	BTB06-600
8A	400V	BTB08-400
8A	600V	BTB08-600
10A	400V	BTB10-400
10A	600V	BTB10-600
12A	400V	BTB12-400
12A	600V	BTB12-600
12A	700V	BTB12-700
16A	400V	BTB16-400
16A	600V	BTB16-600B
4A	600V	BT136-600
4A	800V	BT136-800
8A	600V	BT137-600
8A	800V	BT137-800
12A	800V	BT138-800
16A	800V	BT139-800
12A	500V	BT151-500R
12A	600V	BT151-600R
12A	650V	BT151-650R
12A	800V	BT151-800R

INSULATED TYPES

Current	Voltage	Code
10A	600	BTA10-600C
10A	700	BTA10-700C
12A	400	BTA12-400C
16A	600	BTA16-600
16A	800	BTA16-800B
40A	700	BTA40-700B

THYRISTORS, TRIACS and SCRs

Description	Code
THYRISTOR 500V 2A	2P5M
TRIAC 600V 5A	AC05DGM
TRIAC	AC03E
TRIAC	AC08DGM
TRIAC 600V 1A	BCR1AM-12
TRIAC 400V 3A	BCR3AM-8
TRIAC 600V 3A	BCR3AM-12
TRIAC 600V 5A	BCR5AM-12
TRIAC 600V 6A	BCR6AM-12L
TRIAC 600V 8A	BCR8PM-12L
THYRISTOR 500V 5A	BT100
TRIAC 600V 8A	BTA08-600C
THYRISTOR 30V 1A	BR203
400V 0.8A	BRY55-400
Discontinued use 15-80H	BSTCC0146H
Discontinued use 15-85R	BSTCC0146R
TRIAC 400V 0.8A	MAC97A6
SCR 200V 2A	SF2D41
SG264 THYRISTOR	SG264
SG613 THYRISTOR	SG613
SCR 200V 6.4A	2SF248
THYRISTOR 400V 2A	C106D
THYRISTOR 600V 2A	C106M
THYRISTOR 400V 3A	3P4MH
THYRISTOR 400V 5A	5P4M
THYRISTOR 600V 5A	5P6M
THYRISTOR	15-80H
THYRISTOR	15-85R
TRIAC 6A 400V	SC141D

STUD DIODE

High surge current 500A/1200A 10mS.
Up to 1200 V VRRM. RoHS compliant.
Nut=18mm, Hole=6.35mm, Height=36mm
Standard is Chassis as Cathode

Current	Volts	Code
40A	1200V	40HF120
70A	1200V	70HF120

Reversed is Chassis as Anode

Current	Volts	Code
40A	1200V	40HFR120
70A	1200V	70HFR120



→ Diodes

DIODE



Description	Code
Germanium (Gi) 50mA 50V	1N60
1A 50V Use 1N4002	1N4001
1A 200V General Purpose/Rectifier Diode	1N4002
1A 400V General Purpose/Rectifier Diode	1N4004
1A 1000V General Purpose/Rectifier Diode	1N4007
0.2A 100V 4nS Fast recovery	1N4148
1 A 600V Fast recovery	1N4937
3A 400V General Purpose/Rectifier Diode	1N5404
3A 1000V General Purpose/Rectifier Diode	1N5408
Schottky-Gi 40V 1A	1N5819
Low Drop Power Schottky Rectifier 3A	1N5822
Dem.Uni.35V,0.1A eq.BA147/50/87-90,1N5606-09	1S1555
600V 1A Fast recovery BY126/7,33-35,	1S1888
S,35V,0.1A, 100nS	1SS53
S,100V,0.1A, 100nS	1SS55
0.2A 250V Fast recovery	1SS82
35V 100ma Band switching	1SS110
0.11A 40V 4nS Fast recovery	1SS133
Yellow 50V 250mW 1.5nS Switching Diode	1SS254
Use RH2F	SB2C
THYRISTOR 500V 2A	2P5M
1000V 1A Valley point current diode	BA159
0.25A 250V Switching Diode	BAV21
1,200V 1A General Purpose Use BY228	BY127
1,600V 2.5mA General Purpose	BY176
1.2A 50V Special Purpose	BY188
TV Rectifier 400ma 350V Use BYV95c	BY206
1.5A 1200V TV Damper Diode Use BY228	BY227
1.75A 1500V TV Damper Diode	BY228
Use BY329-1200	BY229-800
Use BY329-1200	BY229-1000
2A 800V TV Fast recovery	BY299
7A 1200V TV Damper, 150nS	BY329-1200
7A 1500V TV Damper, 300nS	BY359-1500
3A 800V TV Fast recovery	BY399
Use BYV95C	BY407
5A 200V Rectifier Diode	BY550-200
Use 600V	BY550-400
5A 600V Rectifier Diode	BY550-600
200V 0.4A SiDi Cont'Av' 300nS	BYD33D
600V 1.5A SiDi Cont'Av' 250nS	BYV95C
1000V 1A Controlled avalanche Diode	BYV96E
600V 3A Controlled avalanche Diode	BYW95C
1000V 3A Controlled avalanche Diode	BYW96E
Use BY229-600	BYX71-600
400V 3A Fast recovery 50nS	EGP30G
600V 2A Fast recovery	FR205
1000V 3A Fast recovery	FR307
1000V 6A Fast recovery	FR607
14KV 5mA Diffused Junction HT	FV5M-20
800V 3A Fast recovery 75nS	HER307
350mA 12000V Diode	HV05-12
Microwave replacement for 2X062H	HV6X2P
Microwave 9KV 350mA	HVR1X4
40V 200mA Si Switching Diode	MA178
200V 200mA Si Switching Diode	MA185
Use 1N60	OA90
Ge Signal Diode Uni,115V,50mA	OA91
GP Plastic Rectifier (M=1KV) 6A	P600M
173V Zener	R2K
Sharp TV RHEX0397CEZZ	R2KN
Sharp Protection Diode	R2KS
130V Protection diode	R2KY
150V Protection Diode	R2M
1500V 2.5A-IF(AV) 5A-IFSM	RH3F
200V Protection diode	RY23
400V Protection diode	RY24
Use UF5408	UF5404
Microwave Stack Diode A6202-4N10T	UX-C2B
Microwave Diodes SEE SECTION 10	ZA018

Diode Substitutions : See MAN36 & MAN37 Diode Substitutions :
See VRT-DVD Data Base Microwave Diodes : See Section 10



→ Optocouplers

PHOTO-OPTOCOUPLER - COSMO

The alternative in optocouplers, To Save You Money ! Equivalent specs' or better to listed substitute part numbers. Cosmo. With all approvals.

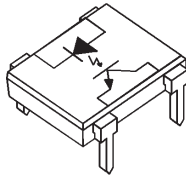
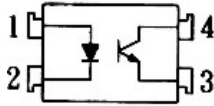


PHOTO-OPTOCOUPLER 4 PIN

Suit PC817, PS2501, 2561, TLP421, 521, 621, SFH610, 611, 615, SFH618, 628, H11A817, and more.

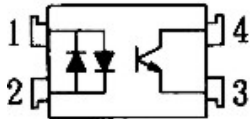


Code
K1010

If 50mA
Viso . . . 5KV
Vceo . . 60Vrms
CTR . . . 50%
I_r 2mA
Tr 5μs
RI 1000

PHOTO-OPTOCOUPLER 4 PIN AC

Suit PC814, PS2505, 2565, TLP620, 626, SFH620, LTV814, H11AA814, and more.

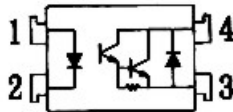


Code
K3010

If 60mA
Viso . . . 5KV
Vceo . . 60Vrms
CTR . . . 60%
I_r 1mA
Tr 5μs
RI 1000

PHOTO-OPTOCOUPLER 4 PIN B

Suit PC852, PS2532, TLP523, TLP627, SFH619, and more.

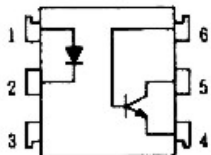


Code
K4010

If 50mA
Viso . . . 5KV
Vceo 300Vrms
CTR . . . 600%
I_r 1mA
Tr 60μs
RI 1000

PHOTO-OPTOCOUPLER 6 PIN

PC4N35, PS2601 4N35, 36, 37, 38, TLP331, 531, 631, SFH600, 601, 608, MCT2, 5210, 5211, H11A1, and more.

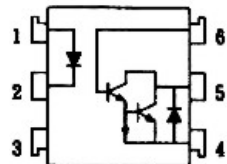


Code
4N35

If 50mA
Viso . . . 5KV
Vceo . . 60Vrms
CTR . . . 60%
I_r 2mA
Tr 5μs
RI 1000

PHOTO-OPTOCOUPLER 6 PIN B

Suit PC852, TLP371, IL66-4, H11B1, MOC119, 8020, and more.

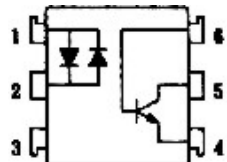


Code
K5010

If 50mA
Viso . . . 5KV
Vceo 300Vrms
CTR . . . 600%
I_r 1mA
Tr 60μs
RI 1000

PHOTO-OPTOCOUPLER 6 PIN AC

PC733, PS2605 TLP330, 630, H11AA1, 2, 3, 4, IL250, 251 IL252, 255, and more.



Code
K6010

If 50mA
Viso . . . 5KV
Vceo . . 60Vrms
CTR . . . 60%
I_r 1mA
Tr 5μs
RI 1000

PHOTO-OPTOCOUPLEDERS - OEM

Isolation V	O/P Device.	I/TX%	BV CEO	Code
1775	Transistor	20	30	4N25
1060	Transistor	20	30	4N26
350	Transistor	10	30	4N28
500	Transistor	100	30	4N35
500	Transistor	100	30	4N36
1770	Transistor-H.V	10	80	4N38A

PHOTO-OPTOCOUPLEDERS - OEM

As used in videos etc.

Code
ON3105
ON3131
ON3171

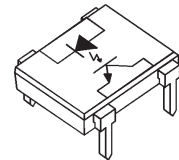
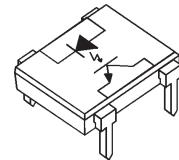


PHOTO-OPTOCOUPLEDERS - OEM

Code
PC111S
PC113
PC120
PC123
PC714
PC813
PC814
PC816
PC817

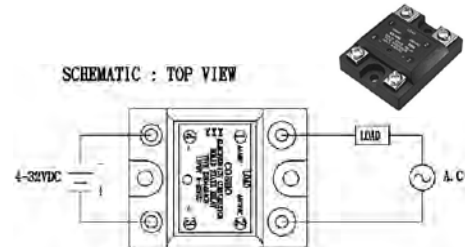


PC121FY substitute to PC123.
PC111S As used in videos etc.

→ Solid State Relays

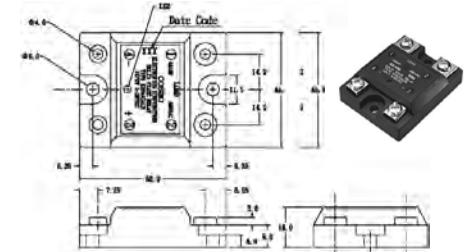
SOLID STATE RELAY 40A 250VAC

I_{out} 40Arms AC
V_s 4→32Vdc
I_s 12→5mA
V_{out} 250Vrms AC
Viso 4000Vac
Riso 10GO
Code KSD240AC8



SOLID STATE RELAY 40A 480VAC

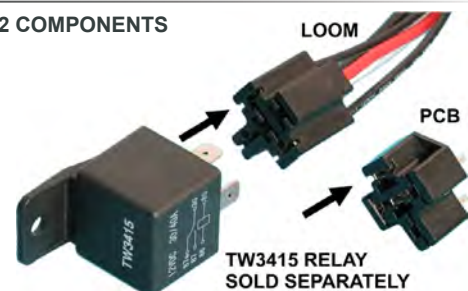
V_s 4→32Vdc
I_s 12→5mA
V_{out} 480Vrms AC
I_{out} 40Arms AC
Viso 4000Vac
Riso 10GO
Code KSD440AC8



RELAYS

SEE SECTION 02 COMPONENTS

Mechanical types



TW3415 RELAY
SOLD SEPARATELY



01 SEMICONDUCTORS

→ LEDs and Photo-Optics

2mm TIP LED

Colour	Code
RED	LED2R
GREEN	LED2G



3mm LED

Colour	Code
RED	LED3R
GREEN	LED3G
YELLOW	LED3Y

High Bright - See Below



3mm BRIGHT LED

Colour	Description	Code
RED	850 mCd	LED3BR
GREEN	500 mCd	LED3BG
YELLOW	500 mCd	LED3BY



4mm LED

Colour	Code
RED	LED4R
GREEN	LED4G
YELLOW	LED4Y



5mm LED

Colour	Code
RED	LED5R
GREEN	LED5G
YELLOW	LED5Y

High Bright - See Below



5mm BRIGHT LED

Colour	Description	Code
RED	350 mCd	LED5BR
RED	850 mCd	LED5SBR
RED	1800 mCd	LED5UBR
GREEN	200 mCd	LED5BG
YELLOW	660 mCd	LED5BY
YELLOW	900 mCd	LED5SBY



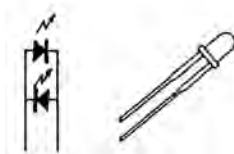
2x5mm LED

Colour	Code
RED	LED25R
GREEN	LED25G
YELLOW	LED25Y



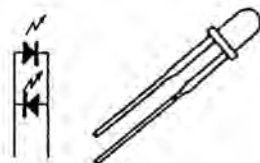
3mm GREEN / RED

Code
LED3GR



5mm GREEN / RED

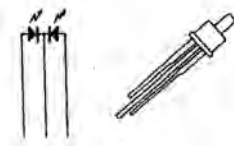
Code
LED5GR



3mm GREEN / RED

(Both=Yellow)

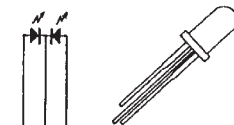
Code
LED3GRY



5mm GREEN / RED

(Both=Yellow)

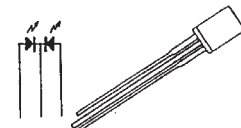
Code
LED5GRY



2x5mm GREEN / RED

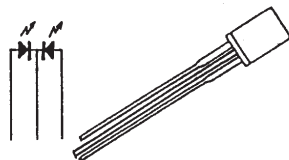
(Both=Yellow)

Code
LED25GRY



2x5mm GREEN / YELLOW

Code
LED25GY



5mm 2Hz FLASHING DIODE

2-15Vdc

Colour	Code
Green	LED5GF
Red	LED5RF



CHROME BEZEL 12V

LED with resistor.
Suit 8mm diam' hole.

Colour	Code
Red	PL6R
Green	PL6GN
Yellow	PL6YL
Empty	MTG5CHRM



LED PANEL MOUNT CLIP

Suit 5mm LED's.

6.2mm bezel with locking washer for a more secure hold of the LED to the panel assembly (2.8mm max thick).

Code
MTG5



IR EMITTER DIODE

As used in remote controls etc.

Code
CQY89



IR RECEIVER DIODE

Equiv.	Code
PH310	PN323



IR RECEIVER

PHOTO TRANSISTOR

Infra-Red, etc.
Vce Max 5V
I dark 100µA
I light 20mA



Size	Colour	Code
3mm	Clear	IRR34C
3mm	Black	IRR34D
5mm	Clear	IRR53C
5mm	Black	IRR53D

LOW VOLTAGE LIGHTS

SUPER LEDs

New generation High brightness LEDs in Low-Voltage Lighting bezels (M16, etc.)

For our full comprehensive range see Section 12.



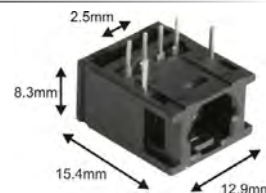
→ Optocouplers

TOSLINK PCB

I/O MODULE

Toshiba OEM
Suit FibreOptic Cable HiFi

Code
TOTX173



See Section 08 PREPARED LEAD

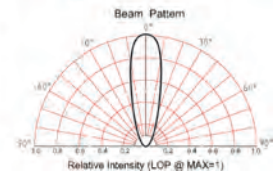
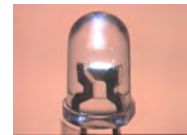
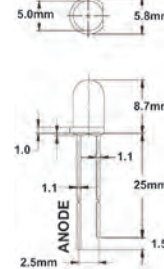


→ LEDs and Photo-Optics

5MM NARROW

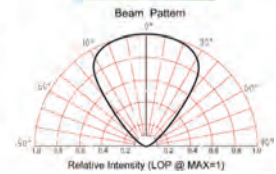
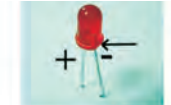
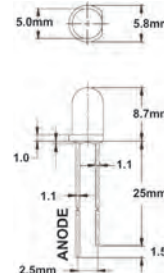
10→15 Degrees

Colour	Voltage	Luminance (mcd)	Code
Red	1.9 - 2.5	2000 - 4500	LED524RD
Red	1.9 - 2.5	8000 - 11000	LED581RD
Orange	1.9 - 2.5	2000 - 4500	LED524OR
Yellow	1.9 - 2.5	2000 - 4500	LED524YL
Yellow	1.9 - 2.5	8000 - 11000	LED581YL
Blue/Green	2.9 - 3.5	8000 - 11000	LED581BG
Green	2.9 - 3.5	8000 - 11000	LED581GN
Blue	2.9 - 3.5	2000 - 4500	LED524BLU
Blue	2.9 - 3.5	6000 - 9000	LED569BLU
White	2.9 - 3.5	4000 - 7000	LED547WH
White Warm	2.9 - 3.5	6000 - 9000	LED569WWH
White	2.9 - 3.5	10000 - 12000	LED51012WH
White	2.9 - 3.5	15000 - 18000	LED51518WH
White	2.9 - 3.5	16000 - 21000	LED51621WH

**5MM WIDE**

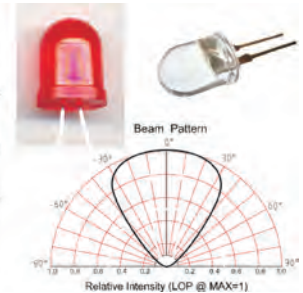
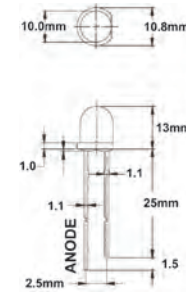
40→50 Degrees

Colour	Voltage	Luminance (mcd)	Code
Red	1.9 - 2.5	2000 - 3000	LED523RD
Yellow	1.9 - 2.5	2000 - 3000	LED523YL
Orange	1.9 - 2.5	1000 - 2000	LED512OR
Amber	1.9 - 2.5	1000 - 2000	LED512AMB
Green	2.9 - 3.5	4000 - 5000	LED545GN
Blue	2.9 - 3.5	2000 - 3000	LED523BLU
White	2.9 - 3.5	2000 - 3000	LED523WH
White	2.9 - 3.5	5000 - 7000	LED557WH

**10MM LARGE**

30→40 Degrees

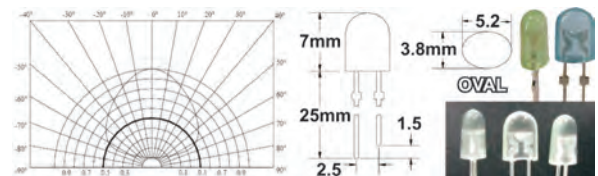
Colour	Voltage	Luminance (mcd)	Code
Red	1.9 - 2.5	2000 - 4500	LED1024RD
Red	1.9 - 2.5	8000 - 11000	LED1081RD
Orange	1.9 - 2.5	2000 - 4500	LED1024OR
Yellow	1.9 - 2.5	2000 - 4500	LED1024YL
Yellow	1.9 - 2.5	8000 - 11000	LED1081YL
Green	1.9 - 2.5	500 - 2500	LED1002GN
Green	2.9 - 3.5	6000 - 9000	LED1069GN
Blue	2.9 - 3.5	2000 - 4500	LED1024BLU
Blue	2.9 - 3.5	6000 - 9000	LED1069BLU
White	2.9 - 3.5	4000 - 7000	LED1047WH
White	2.9 - 3.5	8000 - 11000	LED1081WH

**5MM OVAL**

110→120 Degrees

OVAL TYPE FOR OUT DOOR USE

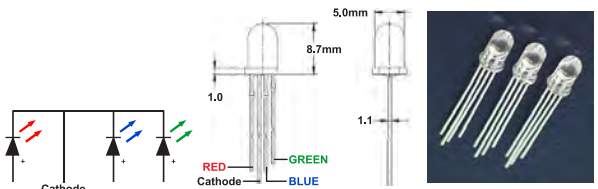
Colour	Voltage	Luminance (mcd)	Code
Red	1.9 - 2.2	400 - 500	LED50VRD
Green	3 - 3.6	2000 - 2400	LED50VGN
Blue	3 - 3.6	500 - 700	LED50VBLU
White	3 - 3.6	2000 - 2500	LED50VWH

**5MM MULTI**

40→50 Degrees TRI-COLOUR LED

RED, GREEN, BLUE

Colour	Voltage	Luminance (mcd)	Code
Red, Green, Blue	1.9 - 2.5 (R), 2.9 - 3.5 (G), 2.9 - 3.5 (B)	2000 - 4500 (R), 7000 (G), 4000 - 7000 (B)	LED5RGB9

**3MM PHOTO TRANSISTOR RECEIVER**

Infra-Red, etc.
Vce Max 5V I dark 100µA I light 20mA

BLACK LENS

Code
IRR34D

CLEAR LENS

Code
IRR34C

**5MM PHOTO TRANSISTOR RECEIVER**

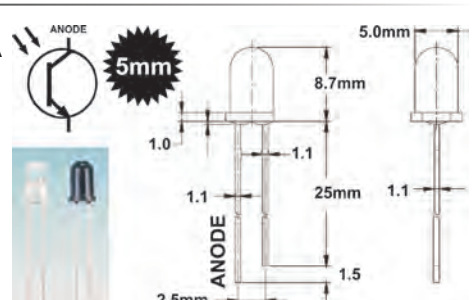
Infra-Red, etc. Vce
Max 5V I dark 100µA I light 20mA

BLACK LENS

Code
IRR53D

CLEAR LENS

Code
IRR53C





↓ Valve Tubes

Sovtek & Electro-Harmonix

Sovtek & Electro-Harmonix have been a source of general replacement valves for the repairman for decades. Some old and popular tubes have remained in stock for radio restorers, hobbyists, etc.

VALVE SUBSTITUTIONS

Check for substitutions as our range covers most general purpose tubes. eq* (equivalent) are suggestions only.



300B Electro-Harmonix GOLD

TRIODE POWER - MATCHED PAIR

"The BEST 300B in the world!!!"
Ceramic base. Gold plated grid.
Classic large shoulder bottles
24Hr burn-in matching pairs Best
specifications achieved 8 course
directly heated filament 40 Watt
gold plate. UX4 Base

Base	Code
UX4	300B-EH-PL



6550-EH Electro-Harmonix

Platinum Matched Pair

The 6550EH offers excellent linearity, power handling capacity, heat dissipation. Four-pillar construction and mica spacers maintain a rugged mechanical reliability. Classic tone is sustained at a prolonged, high output. New leaded glass compound is utilized to maintain vacuum integrity

Base	Code
Octal	6550EHPL



6550-WE MATCHED PAIR

This valve has been engineered for the discerning audiophile or musician. Receiving rave reviews for its superior tone and sonics. Sold only in matched pairs. The "Platinum" matching service is done in factory and consists of 24Hr tube burn in! Exceptional.

Base	Code
Octal	6550WE



6550C-SV-PL Svetlana

Platinum Matched Pair

Consistent, solid and reliable. The construction of gold-plated molybdenum alloy grid, carbon-coated screen grid makes it one of the best current production 6550 on the market. Audio Research uses them, as does Marshall. Lots of power and plenty of headroom

Base	Code
Octal	6550CSVPL



NEW VALVES WITH NEW TECHNOLOGY

A new and improved range of tubes have arrived from Russia and claim to rival Mullards and better the classics of old. New materials and technology make these new release valves the best in the world.

www.sovtek.com



PLATINUM MATCHED PAIRS - 24HR BURN-IN

6L6-GC-SV-PL Svetlana

PLATINUM MATCHED PAIR/QUAD

Looking for the classic sound for your vintage amplifier restoration? GOLD-Plated molybdenum alloy grid and Carbon coated screen grid makes this one of the best, most reliable, efficient, and classic sounding 6L6s. Very deep and rich sounding classic.

Base	Code
Octal	6L6GCSVPL
Octal	QD6L6GCSVPL

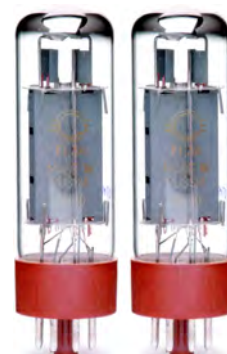


EL34-SV-PL Svetlana

Platinum Matched Pair/Quad

Smooth midrange sound with plenty of headroom. Gold-plated molybdenum alloy grid and carbon-coated screen grid makes it one of the best current production matched pair EL34's on the market. It's a sturdy tube that can handle heavy use, excellent replacement for Marshall amplifiers, etc.

Base	Code
Octal	EL34SVPL
Octal	QDEL34SVPL



KT88-SV-PL Svetlana

Platinum Matched Pair

Reminiscent to Genalex KT88 Gold Lion. Gold-plated molybdenum alloy grid and carbon-coated screen grid for power. This KT88 also substitutes most 6550s! It provides a more pronounced bass and is a much more solid tube.

Base	Code
Octal	KT88SVPL



KT90-EH Electro-Harmonix

Platinum Matched Pair

The Electro Harmonix KT90 is a great sounding tube. The low end is not boomy at all, but quick and responsive. Female vocals will be noticed with tube. Very realistic mids with a sweet top. Highly recommended.

Base	Code
Octal	KT90EH





↓ Valve Listing

6550 / KT88 Sovtek

Triple Carbonate Oxide Cathode operates at full power for extended periods without failure or compression. Increased output power, higher gain and precise tube matching with minimal drift. Also maintains an impressive tonal clarity. Suit premium Audiophile HiFi systems or the on-road reliability for the musician!

Base Code
Octal KT88



6L6-WGC / 5881

Sovtek 5881

Most reliable 6L6 available Extremely constant production Popular in Marshall's and others Rigid Mil. Spec. output tube 6.3V@0.88A 250Vx73mA Plate Popular for its choice in tone Warm round tone that "sweetens"

Base Code
Octal 6L6WGC



6L6-WXT+

Sovtek High-Power 20% higher output than 5881-WXT Mica spacers and metal springs. No rattle microphonics, etc. Superior overall tone tube. Suit or guitarists or HiFi Excellent upgrade reliability.
eq.* 5881 6BG6 6L6GC/GT KT66

Base Code
Octal 6L6WXT



6L6-EH CLASSIC

Electro-Harmonix

Super updated version of the 6L6. Modelled on "RCA Blackplate" classic. Improved grid/plate for high power. Mica spacers & metal springs for no more rattling microphonics.
eq.* 5881 6BG6 6L6GC/GT

Base Code
Octal 6L6EH



6L6-GC KT66 Tung-Sol

AUDIOPHILE Bluesbreaker

Brand new production version
"Woman tone at its finest!"
Rugged 6L6-GC in a bottle.
Big and open. Solid lows.
Beautiful Smooth treble.
Top notch audio quality.
Looks the part too!

Base Code
Octal KT66TUN



6V6-GT Electro Harmonix

All new design with rugged EH Technology Specially developed cathode coating & gate. Tri-alloy plate. Rugged. Wonderful sound. Perfect for high plate voltage amps like Fender Deluxe Reverb. Any 6L6 up to 475V ! Very popular & reliable replacement tube eq.* 8571, 6AY5, 6P6C, any 6L6, 7184, CV509/510/511.

Base Code
Octal 6V6EH



6CA7 / EL34 (25W)

Electro-Harmonix

"Very close sonics to a Mullard"
Extremely musical with sound that is rich, smooth, highly detailed without being edgy. Sweet mids, deep bass, extended highs. Overall, a well balanced valve. Electrically eq. big-bottle 6CA7

Base Code
Octal EL34EH



6CA7 / EL34 (25W) - BIG BOTTLE

Electro-Harmonix

Designed to exacting specifications of a Philips 6CA7, this classic tetrode retains a high detail tone with military reliability as a direct EL34 replacement with higher headroom, etc. Larger bottle tube

Base Code
Octal 6CA7EH



6BQ5 / EL84

O/P PENTODE AF 10W

Vh 6.3, Ih .75, Va 250, Pa 2.2, 10W HiFi AF amp VOX AC30 (Beetles). Popular Sovtek tube As used in Fender, Crate and Peavy.

Base Code
B9A 6BQ5



6BQ5 / EL84-EH

Electro-Harmonix

Extremely musical with a sound that is rich, smooth, detailed without being edgy. Beautiful! It is the perfect EL84 for any vintage equipment & a sure way to improve the performance of even modern audiophile systems

Base Code
B9A* EL84EH



6SN7-GT

Sovetek

TWIN TRIODE AF Vh 6.3, Ih .6, Va 250, Ia .009
Premium Q AF GP Valve
eq. suit driver for 6L6. eq.*
CV181, 1986, 1988, 278, ECC32,
E1606, VT231, 12SN7.

Base Code
Octal 6SN7



6SN7-EH

Electro-Harmonix

The 6SN7EH is a beautiful sounding tube, on par with RCA's red base 5692. It maintains a linear response while being able to accept a full voltage. Vintage amp users and audiophiles will be thrilled to find that a superior quality, ultra low noise replacement finally exists.

Base Code
Octal 6SN7EH





↓ Valve Listing

6AU6

WIDEBAND PENTODE

Sharp-Cutoff Wideband Amplifier.
Suit AF, IF & RF Frequencies up to 50MHz.
USA General Electric JAN-6AU6WC
B7G Miniature 53x18mmØ
Equiv. CV2524, CV8403, EF94, 6J4, 6P2

Base	Code
B7G	6AU6WC



6C45 Pi-EH-G Electro-Harmonix GOLD

GOLD GRID PLATE AUDIOPHILE TRIODE

Premium grade DC-80MHz bandwidth Very high mutual transconductance Gold Plated Pins and Grid/plate Suit premium grade HiFi equipment as a high current tube driver, etc. 3A167M, CV5112, WE437A, EC8020 Mu=50, Rp=1K, gm=50mA/V, Plate=7W

Base	Code
B9A	6C45PIEHG



6DJ8 6922

Premium version Electro-Harmonix Longer life better performance Subs 6DJ8 E88 ECC88

Base	Code
B9A	6922EH



GOLD PIN

Base	Code
B9A	6922EHG

6H30 Pi

Sovtek "Super-Tube"

Refined Super linear, military spec. Mid MU dual triode preamp / driver. Sovtek now supply this special OEM tube Suit "Supertube" Balanced Audio Technology As used in the B.A.T. VK-50SE pre-amplifiers Will replace 6H30, 6N30, 6N30P only NOT a direct sub for 6922 ECC88 6DJ8

Base	Code
B9A*	6H30P



6SL7 Sovtek

The Sovtek 6SL7 is a very capable replacement for any 6SL7 tube Good reliability from Sovtek High-MU twin-triode as used in coupling circuits / phase, etc.

Base	Code
Octal	6SL7



7591A

AMPEG OWNERS REJOICE

Genuine Electro-Harmonix "Smooth, yet punchy, with a sweet harmonix finish!"

Base	Code
Octal	7591A



12AT7 ECC81

Vh12.6, Ih.15, Va300, Pa2.5 Low noise dual triode. As used in Fender Amps. eq.* CV10662/455 CV8154/9859

Base	Code
B9A*	12AT7



12AU7A 5814A

Vh12.6, Ih.15, Va300, Pa2.75 GP AF Low gain. eg. driver tube. eq.* 12AU7, 5814, 5963, 6067, 6189, 6680, 7489, 7730, B529,CV10323/10666/3900, ECC82/83, more.

Base	Code
B9A*	12AU7A



12AX7 ECC83

12AX7 Electro-Harmonix

High gain, ultra low noise, Spiral filament for no hum. Suit Guitar amps, etc.

Base	Code
B9A*	12AX7EH



12AX7 Sovtek

Special Low Noise Edition "...very linear, large full sound stage, very musically detailed...". Classic large plate Mullard design.Excellent HiFi replacement/upgrade

Base	Code
B9A*	12AX7LPS



12AX7 Svetlana

New Xpo-Pul Reflector made tube Solid construction build quality Not the older "C" type but a new Upgraded to a far better version

Base	Code
B9A	12AX7SVET



↓ Rectifiers

RECTIFIER VALVES

6CA4 Electro-Harmonix

Full Wave Rectifier Valve CV3996 CV5072 EZ81 U709 Vh=6.3V Ih=1mA Ir=150mA 350-0-350 RMS

Base	Code
B9A	6CA4

5AR4 GZ34

550-0-550 max

Base	Code
Octal	5AR4

5U4-GB Electro-Harmonix

Audio quality rectifier Full Wave Rectifier 450-0-450 *5AS4, 5U4, CV575, VT244, VU71

Base	Code
Octal	5U4GB



5Y3-GT Sovtek rectifier

An indirectly heated diode. Suitable for Audio quality 350-0-350 RMS. 140mA Max. 5V @ 2mA Filament

Base	Code
Octal	5Y3GT



↓ Valve Cross-Reference

FULL VALVE LISTING

EXTRAS & SOME SUBSTITUTES

Below is a complete listing of our range including some additional rare tubes and also some substitute suggestions*



Base	Substitutions	Code
UX4	Matched Pair. Gold	300B-EH-PL
Octal	54KU GZ30/33/34/37 R52 U54 U77 +	5AR4
Octal	5AS4, 5U4, CV375, VT244, VU71	5U4GB
Octal	Rectifier	5Y3GT
Octal	Matched Pairs. CV5220 KT88 KT90	6550WE
Octal	Matched Pairs. CV5220 KT88 KT90	6550EHPL
Octal	Matched Pairs. CV5220 KT88 KT90	6550CSVPL
B9A	E88, ECC88, 6DJ8	6922EH
B9A	E88, ECC88, 6DJ8 Gold Pins	6922EHG
B9A	EY88 10745	6AL3
Octal	6GK17	6AU4
B7G	CV2524, CV8403, EF94, 6J4, 6P2	6AU6WC
B9A*	6C16 ECF80 E80CF	6BL8
B9A	ECL82 6PL12	6BM8
B9A	6GB6 6P15 EL84 E84L N709	6BQ5
B9A*	ECC180	6BQ7
B9A	6F19 6F26 EF85 W719	6BY7
B9A	3A167M, CV5112, WE437A, EC8020	6C45PIEHG
B9A	CV3996, CV5072, EZ81, U709	6CA4
Octal	EL34 Big Bottle	6CA7EH
B9A	EL86	6CW5
B9A	EF183 EF811 6F25 6F29	6EH7
B9A	6DJ8 ECC88 ECC189 Use 6922	6ES8
B6G	TV Triode	6GK5
B9A*	BAT VK-50SE Use Only	6H30P
B9A*	ECF802 PCF802	6JW8
Octal	KT66 EL37 5881 6BG6 Classic Blackplate	6L6EH
Octal	KT66 EL37 5881 6BG6 Sweet Classic	6L6WGC
Octal	KT66 EL37 5881 6BG6 High-Power	6L6WXT
Octal	Matched Pair. Platinum	6L6GCSVPL
Octal	6113 6H9M 6N9C 6N9S CV1985 VT229	6SL7
Octal	CV1986 CV1988 VT231, ECC32 CV181	6SN7
	CV1986 CV1988 VT231	
Octal	Premium version. RCA 5692	6SN7EH
B9A*	ECF201	6U9
Octal	8571, 6AY5, 6P6C, any 6L6, 7184 +	6V6EH
Octal	Ampeg.	7591A
B7G	12BC32 HBC90 HBC91	12AT6
B9A*	ECC81/801/S E81CC B152/309/739 +	12AT7
B9A*	ECC82/186/802/S B329/749 E82CC +	12AU7A
B9A*	6L13 B339 B759 ECC83 ECC803 +	12AX7LPS
B9A*	6L13 B339 B759 ECC83 ECC803 +	12AX7EH
B9A	Xpo-Pul Reflector Version	12AX7SVET
B9A*	EF86 6267 6F22 CV10098 CV2901 Z729	EF86EH
Octal	EL34 6CA7 CV1741	EL34EH
Octal	EL34 Matched pair. 6CA7	EL34SVPL
B9A*	EL84 6BQ5 6P15 CV8069 N709	EL84EH
Octal	6L6-GC, CV1075, CV321, VT75 Tung-Sol	KT66TUN
Octal	6550 KT90 CV5220	KT88
Octal	Matched Pair. Platinum	KT88SVPL
Octal	KT88, 6550, CV5220, Matched Pair. Platinum	KT90EH

Substitutions for suggestion only! Check Valve Specifications 1st. For some data, please click to www.wescomponents.com/valves

* Denotes: Short Version Valve that Fits under our VS915 Shield

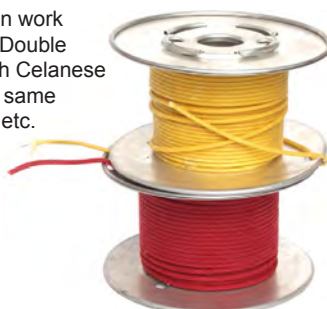
↓ Valve Wiring

VINTAGE CLOTH COVERED WIRE

22 AWG SOLID CORE

Authentic wire for vintage restoration work and high temperature applications. Double woven cloth jacket, wax coated, with Celanese inner braiding. Real Deal. From the same manufacturer that supplies Fender, etc. Supplied on 50ft spools.

Colour	Length	Code
Black	15M	PBW50BK
Blue	15M	PBW50BU
Brown	15M	PBW50BN
Red	15M	PBW50RD
White	15M	PBW50WH
Yellow	15M	PBW50YL



↓ Valve Components

PPL - "ORANGE DROPS" POLY CAPS 600VAC

"Orange Drops" is the nickname for Spragues classic valve type film caps due to their colour and shape. The all new 715 polypropylene film capacitors build on this reputation. Suitable for any Guitar and home HiFi valve amplifier restoration. The 715's are popular because they work well and have a nice clean smooth tone compared to the muddy sounding and unstable old holo-wax paper caps originally used. These new polypropylene film caps have much better leakage characteristics too. They will probably outlive the amplifier and the musician!

Value	Code
.001μF	.001PPL600
.0015μF	.0015PPL600
.0022μF	.0022PPL600
.0033μF	.0033PPL600
.0047μF	.0047PPL600
.01μF	.01PPL600
.015μF	.015PPL600
.022μF	.022PPL600
.047μF	.047PPL600
.068μF	.068PPL600
.1μF	.1PPL600
.15μF	.15PPL600
.22μF	.22PPL600
.47μF	.47PPL400



NEW! Just arrived! SILVER-MICA. See Section 2 COMPONENTS

ATM - "ATOM" AXIAL ELECTROLYTICS

Sprague Type TVA Atom Aluminum Tubular Axial Electrolytic Capacitors. Excellent sonics For Tube Guitar Amps and audiophile home Hi-Fi. These sturdy, axial lead, aluminium electrolytic capacitors are preferred by most craftsmen for authentic vintage guitar amp and hi-fi restorations. Many of the best sounding classic guitar amps by Fender, Ampeg, Magnatone, Valco and many others used Sprague Atom series electrolytics.

Value	Volts	Code
8μF	150V	8ATM150
8μF	450V	8ATM450
10μF	150V	10ATM150
10μF	500V	10ATM500
16μF	475V	16ATM475
20μF	500V	20ATM500
20μF	600V	20ATM600
25μF	25V	25ATM25
25μF	50V	25ATM50
30μF	500V	30ATM500
40μF	500V	40ATM500
50μF	50V	50ATM50
80μF	450V	80ATM450
100μF	100V	100ATM100
100μF	350V	100ATM350
100μF	450V	100ATM450
250μF	25V	250ATM25



F&T DUAL VALUE RADIAL CAPS

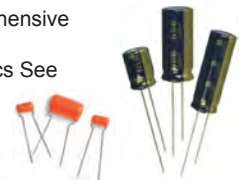
F&T and LCR direct replacement type caps, dual value electrolytic aluminium cans. Premium quality made in Germany or UK.

Value	Volts	Size	Code
32μF+32μF	500V	52x35Ø	FT32X32
50μF+50μF	250V	40X30mmØ	100C250
50μF+50μF	500V	52x35Ø	FT50X50
100μF+100μF	500V	66x35Ø	FT100X100
225μF+225μF	385V	40x40mmØ	250C385
400μF	385VDC	75x35mmØ	400C385



MORE CAPACITORS

SEE SECTION 02 COMPONENTS Comprehensive range of many types of capacitors
Also resistors, Inductors and other electronics See Section 02 COMPONENTS





01 SEMICONDUCTORS

↓ Valve Sockets

BASE "B9A" "NOVEL" - PCB MOUNT

9 pin valve socket with ceramic base to PCB solder pins.

Base	Code
B9A	VS901



BASE "B9A" + SHIELD

9 pin valve socket B9A ceramic base to solder TAGs Shield cap 40-50mm tall tubes With spring loading to hold Valves secure for transport. Ideal guitar amp solution.

Genuine Fender part OEM

Base	Code
B9A	VS915



BASE "OCTAL" - PCB MOUNT

8 pin valve socket with ceramic base to PCB solder pins. KT88, 6550, 6L6, and others...standard Octal.

Base	Code
Octal	VS801



BASE "OCTAL" - CHASSIS MOUNT

Ceramic Heat Resistant 8x Tinned to solder TAGs Screw base to Chassis 25mmØ +Bracket 40mm

Base	Code
Octal	VS803
Octal	VS802



BASE "OCTAL" - CHASSIS MOUNT DELUXE

DELUXE OVER-SIZED
8 pin "Octal" Base Ceramic heat resistant Dual piece contacts to solder TAGs.

PREMIUM 40x56mm

Base	Code
Octal	VS812



↓ Valve Clamp

VALVE RETAINERS

Spring loaded retainer
Excellent solution for guitar amplifiers, etc.
Ensures a firm contact so large valves don't shift.
"C" is a minimum height.
(+50% max.)

"A"	"B"	"C"	Code
35	22	75mm	VRET20
42	22	80mm	VRET10
45	22	90mm	VRET30



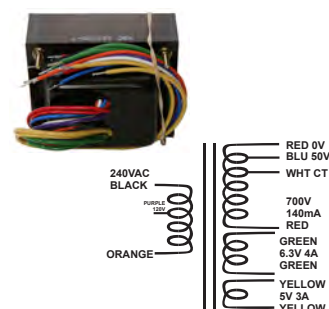
↓ Valve Transformers

FENDER POWER TRANSFORMER

022798 SUIT 50W

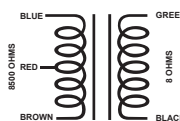
240Vac Power Transformer
Suits Fender Guitar amplifiers
Mono 40W using 6L6 Valve
pair Models Vibroverb,
Bandmasters, Super reverb,
Pro Reverb, etc. Also
Bassman Heads, etc...

Size	Code
105x88x89mm	NSC022798T



FENDER OUTPUT TRANSFORMER

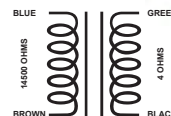
OEM	Fender
Power	25W
Primary	8.5KΩ +CT
Secondary	8 Ω
Size	70x60x55mm
Code	NSC041318T



FENDER COUPLING TRANSFORMER

4Ω - 14.5KΩ Fender: 022921 Reverb
Driver Transformer suit most guitar
amplifiers with analogue reverb.
Marshall JCM800-2205/10.
Fender 125A20B
Also suitable as 3.5W SE output.

Size	Code
45x35x40mm	NSC022921



FENDER CHOKE

SUITS FENDER 125C1A

Replacement choke for Twin, Super, Dual
Showman, Primary wind only (Choke)
High temperature wires

Size	Code
60x50x45mm	NSC125C1A



MARSHALL POWER TRANSFORMERS

MARSHALL REPLACEMENT TYPES

Built to original specifications, correct ratios and
lots of iron! Suits the classic JCM800's, etc.

OEM	17D030	17D040
Power	50W	100W
Voltage	690V	350V
Current	0.15A	0.3A
Code	MPT50	MPT100



MARSHALL OUTPUT TRANSFORMERS

MARSHALL REPLACEMENT TYPES

Built to original specifications,
correct ratios and lots of iron!
EL34's, JCM800's, not JCM900.

OEM	17D010	17D020
Power	50W	100W
Primary	3.8K Ω	1.9K Ω
Secondary	8 Ω	8 Ω
Code	MOP50	MOP100



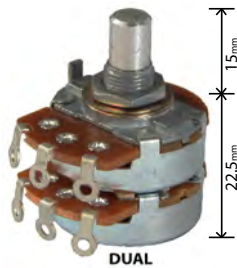


↓ Potentiometers

ALPHA DUAL POTENTIOMETERS

1/4" Solid Shaft, 24mm Body, Solder Lugs, 1/2 Watt Rated. Fits 3/8" Hole. Comes With Hex Nut and Washer.

Type	Value	Code
Dual Linear	100K	V30-100KBX2
Dual Log	1M	V30-1MAX2

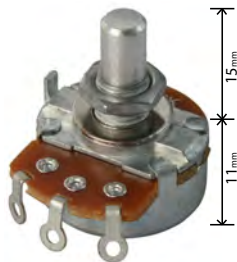


ALPHA POTENTIOMETERS

GUITAR AMP POTENTIOMETER

Ultra high quality dampened rotational movement provides very smooth feel throughout turn. Audio/Log pots are typically used for volume control, and Linear pots are typically used for effects. 1/4" Solid Shaft, 24mm Body, Solder Lugs, 1/2 Watt Rated. Fits 3/8" Hole. Comes With Hex Nut and Washer.

Type	Value	Code
Linear	5K	V30-5KB
Linear	10K	V30-10KB
Linear	25K	V30-25KB
Linear	100K	V30-100KB
Linear	250K	V30-250KB
Log	100K	V30-100KA
Log	250K	V30-250KA
Log	500K	V30-500KA
Log	1M	V30-1MA



CTS POTENTIOMETERS

NYLON SHAFT

Smooth action and top quality potentiometer. 24mm Body, Solder Lugs, 1/2 Watt Rated. Fits 3/8" Hole, 1/4" Solid nylon spindle shaft for the set screw or push-on knobs. Comes With Hex Nut and Washer.

Type	Value	Code
Linear	100K	V32100KB
Log	10K	V32-10KA
Log	250K	V32-250KA
Log	500K	V32-500KA
Log	1M	V32-1MA
Reverse Log	50K	V32-50KRA
Reverse Log	3M	V323MRA



CTS POTENTIOMETERS WITH PUSH/PULL

CTS PUSH-PULL SWITCH

Single Pole switch. 1/4" Shaft with 1.5mm centre cut, 24mm Body, Solder Lugs, 1/2 Watt Rated, 125Vac 3A. Fits 3/8" Hole. Comes With Hex Nut and Washers.

Type	Value	Code
Log	10K	V34-10KA
Log	1M	V34-1MA



VOLUME POTS

POTENTIOMETERS

1/4" 6.35mm Half Moons Cut shaft to length Linear & Log types See Section 02 COMPONENTS

SWITCHED POTS Pull/Push switch

See Section 02 COMPONENTS



↓ Plug Jacks 1/4"

1/4" MONO JACK VINTAGE SOLDER

Mono input jack, 4 Solder terminals. Switched. Vintage Type with metal ferrule.

Type	Mounting	Pins	Code
Mono	Panel	4 Pins	BJ101



1/4" MONO JACK VINTAGE PCB

Mono input jack, 4 PCB Mount terminals. Switched. Vintage Type with metal ferrule.

Type	Mounting	Pins	Code
Mono	PCB	4 Pins	BJ121



1/4" STEREO JACK VINTAGE PCB

Stereo input jack, 6 PCB mount terminals. Switched. MXR replacement jack.

Type	Mounting	Pins	Code
Stereo	PCB	6 pins	BJ124



1/4" MONO JACK MODERN MARSHALL SOLDER

Mono input jack, 4 Solder terminals. With black Plastic nut.

Type	Pins	Mounting	Code
Mono	4 Pins	Panel	BJ102



1/4" MONO JACK MODERN MARSHALL PCB

Mono input jack, 4 PCB mount terminals.

Type	Pins	Mounting	Code
Mono	4 Pins	PCB	BJ103



1/4" STEREO JACK MODERN MARSHALL PCB

Stereo input jack, 6 pin PCB board connector.

Type	Mounting	Pins	Code
Stereo	PCB	6 Pins	BJ104



1/4" MONO JACK PCB

Fender® PCB Mount jack. Mono 4 pins.

Type	Mounting	Pins	Code
Mono	PCB	4 Pin	BJ106



1/4" STEREO JACK PCB

Fender® PCB Mount jack. Stereo 9 pins.

Type	Mounting	Pins	Code
Stereo	PCB	9 Pins	BJ107



1/4" SWITCHCRAFT OPEN MONO JACK

1/4" female. Open circuit. Can be used as replacement in Fender®, external speaker/guitar output/effects pedals.

Type	Mounting	Code
Mono	Panel	SCJ11



1/4" SWITCHCRAFT SHORTING MONO JACK

1/4" female. Shorting type. Can be replace Fender® input jack.

Type	Mounting	Code
Mono	Panel	SCJ12A



1/4" SWITCHCRAFT OPEN STEREO JACK

1/4" female. Stereo double open circuit. Can be used for effect pedal input.

Type	Mounting	Code
Stereo	Panel	SCJ12B





01 SEMICONDUCTORS

↓ Classic knobs

KNOBS "CHICKEN HEAD"

As used on Fender Amps, etc. 1/4"
6.35mm Half-Moon Grub screw

Colour	Code
Red	KB010
White	KB050
Blue	KB100
Yellow	KB150
Ivory	KB200
Black	KB250



KNOBS

MATCHING EQUIPMENT STYLE

6.35mm shaft, Grubscrew fixing
Same style, different sizes;

Size	Code
19x16mmØ	KB7760
16x20mmØ	KB7762
20x24mmØ	KB7764
19x35mmØ	KB7766



6mm Star Push-On

Size	Code
14x15mmØ	KB7770

KNOBS

PUSH ON STYLE

6.35mm shaft, 18x20mmØ

Colour	Code
RED	KB7705
YELLOW	KB7713
BLACK	KB7707
WHITE	KB7715
BLUE	KB7709
GREY	KB7717



KNOBS

SKIRT WITH NUMBER 1-10

6.35mm shaft Grubscrew
fixing 23.5x36mmØ

Code
KB7549

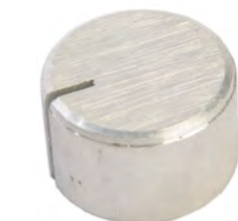


KNOBS

BRUSHED ALUMINIUM

High quality brushed aluminium finish,
engraved pointer Suitable for Hi-Fi
projects 6.35mm shaft, 14x22mmØ

Code
KB7022



KNOBS

BLACK PLASTIC ALUMINIUM INSERT

Code
KB7740



↓ Amplifier Switches

ROCKER SWITCH

SNAP-IN 250VAC

Hole	Illuminated	Current	Type	Code
20x13mm	No	4A	DPST	SW200
20x13mm	No	6A	SPST	SW210
20x13mm	No	6A	SPDT	SW215
20x13mm	Green	4A	DPST	SW205
20x22mm	No	5A	DPST	SW202
25x25mm	No	10A	DPST	SW203
30x22mm	No	10A	DPDT	SW220
30x22mm	Red	10A	DPDT	SW225



TOGGLE SWITCH

SPST

"Standard" Toggle 1.5A (250Vac) max.

Code
SWT121

DPST

Code
SWT123

DPDT

Code
SWT125



TOGGLE SWITCH

CENTRE OFF DPDT

Heavy duty toggle Screw terminal
x6 Double pole Double throw
Centre OFF Max. 3A 250V

Code
SWT127



SECTION 02

SPST CARLING TOGGLE SWITCHES

SPST TOGGLE

Power & standby switches that can
be used as replacement in Fenders®.
250Vac 3A. Fits Ø11.8mm hole.

Code
SWT110



SPST CARLING FOOTSWITCH

SPST FOOTSWITCH

Can be used in Fenders®, etc. reverb/trem/channel
switching pedals. 250Vac 3A. Fits Ø11.8mm hole.

Code
SWT110P



DPDT FOOTSWITCH

Used in many effects and switching units.
250Vac 1A (125Vac 3A). Fits Ø11.8mm hole.

Code
SWP316

FOOT SWITCH

DPDT TOGGLE

Push-ON / Push-OFF
Kick 6A-250Vac

Code
SWP328

TPDT TOGGLE

Triple pole Kick

Code
SW3PDT



STANDARD DPDT SLIDE SWITCH

STANDARD DPDT SLIDE

Standard DPDT (ON-ON) Low voltage slide
switch. Can Replace bright switch in Fenders®.

Code
SW30

