

General Specifications

MATERIALS

Insulator: Blue glass filled thermoplastic polyester Valox UL 94V-O Approved;
Green glass filled polyphenylene sulfide Ryton UL 94V-O Approved;
Natural brown polyetheretherketone Peek UL 94V-O Approved;
Other materials available.

Contacts: Phosphor Bronze (Standard); Beryllium Copper; Pfinodal;
Beryllium Nickle.

Contact Plating: Gold and/or Tin over .000050" Nickle Under Plate.

UL File Number: E64287

CSA File Number: 69695

Federal ID Number: 54453

MECHANICAL

Board Insertion Force: 16 oz. maximum per contact using
.062" (1.57) steel test blade

Board Withdraw Force: 1 oz. minimum per contact using
.062" (1.57) steel test blade

ELECTRICAL

Insulation Resistance: 5,000 megohms

Dielectric Withstanding Voltage:

Contact

Centers— .050 (1.27) .100(2.54) .125 (3.17) .150 (3.81) .156 (3.96)

Voltage— 250 VDC 600 VDC 800 VDC 1500 VDC 1800 VDC

Current Rating: 3 amperes

Voltage Drop: 30 millivolts at rated current

Contact Resistance: 10 milliohms maximum at 3 amp rating.

ENVIRONMENTAL

Solvent Resistance: Perchloroethylene, Freon 113, Freon 11, Trichloroethylene

Operating Temperature: Valox* -65° to +135° C	Phosphor Bronze -65° to +125° C
Ryton* -65° to +220° C	Beryllium Copper -65° to +150° C
Peek -65° to +250° C	Pfinodal* -65° to +200° C
	Beryllium Nickle -65° to +300° C

(Continuous temperatures, higher for short duration.)

*Or equivalent

Special Applications

Sullins connectors are available with over 700 modifications for customers with specific applications. If your design application has unique dimensions, requires special materials for insulators or contacts, or demands an unusual plating thickness, etc., Sullins will be happy to evaluate your engineering requirements.



4 See page 35 for additional modifications.

D

95E ■ 8729647 0000368 65T ■

Connectors for PC Computers

Part Number Coding

P = .025 Square Post Headers (See pages 30-31)
D = D Subminiature Connectors (See pages 32-33)

Sullins orderline:
619/744-0125
Fax/744-6081

MATERIALS (Insulator/Contact) ————— E Z M 43 D RT H — S37

E = Valox*/Copper Alloy (Standard)
H = Valox/Beryllium Copper
R = Ryton*/Copper Alloy
A = Ryton/Beryllium Copper
C = Ryton/Beryllium Nickle (Consult Factory)
F = Ryton/Pfinodal† (Consult Factory)
W = Peek*/Beryllium Nickle (Consult Factory)
N = Peek/Beryllium Copper (Consult Factory)

CONTACT FINISH —————

Contact Surface	Termination
Z = .000010 Gold	.000100 Tin
X = .000030 Gold	.000100 Tin
G = .000010 Gold	.000005 Gold
Y = .000030 Gold	.000005 Gold
Contact Surface	Overall Plating
T = .000100 Tin	.000100 Tin
S = .000010 Gold	.000010 Gold
M = .000030 Gold	.000010 Gold
All Gold Plated Over	.000050 Inch Nickle

CONTACT CENTERS —————

B = .050 (1.27)	J = .150 (3.81)
C = .100 (2.54)	M = .156 (3.96)
A = .125 (3.17)	

NUMBER OF CONTACT POSITIONS —————

02 thru 110

READOUT —————

D = Dual
S = Single
H = Half Loaded

*Registered Trademarks

General Electric Co.: Valox
Phillips 66: Ryton
Gardner-Denver Co.: Wire Wrap
RTP Compounder: Peek
IBM: Micro Channel
Sullins Electronics: Zero Lead Time

Specifications are subject to change without notice.

†High tin solder cannot be used with Pfinodal contacts in applications greater than 150°C. Consult factory for recommendation.

MODIFICATIONS (Consult Factory)

OMIT FOR STANDARD

-S13 = Card Extender Format to Fit .062 (1.57) PCB
See page 35 for additional modifications

MOUNTING STYLE —————

H = Clearance Hole .125 (3.17) Dia.
N = No Mounting Ears
S = Side Mounting .125 (3.17) Dia.
I = Threaded Insert 4-40 NC-2B Thd.
F = Floating Bobbin
W = .430" Ears, Flush Mounting
D = .250" Ears, Flush Mounting
P = Clearance Hole .142 (3.61) Dia.
B = Open Card Slot
X = .430" Ears, Flush Mounting with Threaded Insert
T = .250" Ears, Flush Mounting with Threaded Insert

TERMINATION TYPE —————

Eyelet

RE, TE, SE = Eyelet Tail
RZ = Forked Eyelet Tail

Low Profile Dip Solder

SX, SU = Single Centered
RT, RK, RY = Single/.140 (3.56) Row Spacing
RX, RU, RP = .200 (5.08) Row Spacing
RJ = .250 (6.35) Row Spacing

High Profile Dip Solder

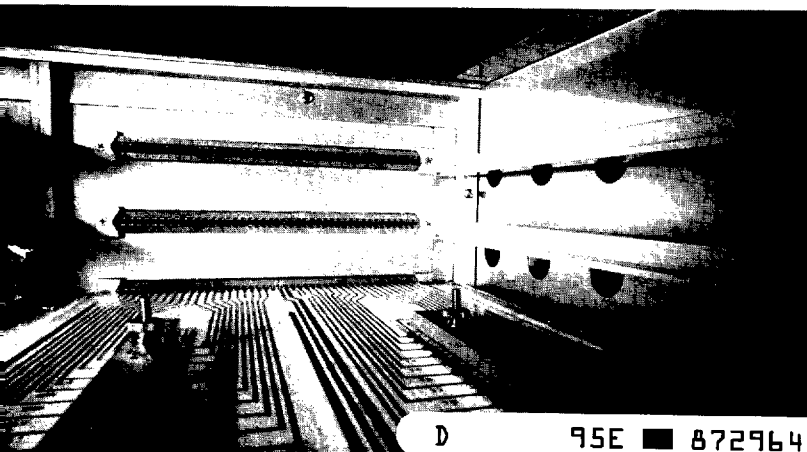
RS = .025 (.64) Square Tail with Loop Bellows
CS, SC = .025 (.64) Square Tail with Hairpin Bellows
CT, CW = .015 x .025 Tail with Hairpin Bellows
CF, CH, CR = .012 x .018 Tail with Hairpin Bellows
TK = .026 (.66) Round Tail with Loop Bellows
CK = .026 (.66) Round Tail with Hairpin Bellows
KJ = .031 (.79) Square Tail with Cantilever Beam

Wire Wrap

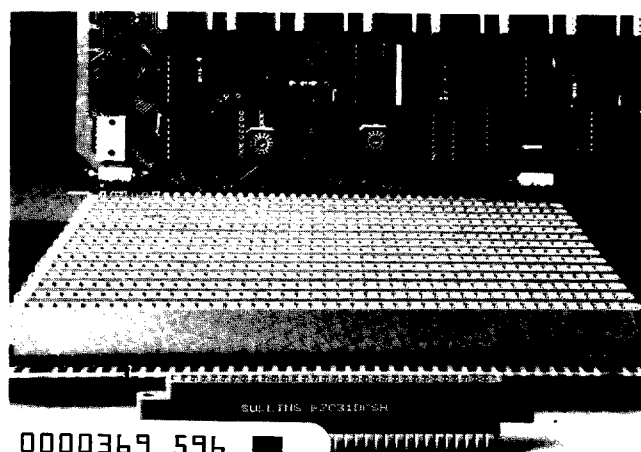
RM = .025 (.64) Square Post with Loop Bellows
CM, MC = .025 (.64) Square Post with Hairpin Bellows
KK = .031 (.79) x .062 (1.57) Post
KL = .031 (.79) x .062 (1.57) Post Twisted 90°
WW = .045 (1.14) Square Post

Right Angle

RA, SA = Right Angle with Full Bellows
TA, TB, TM = Right Angle with Loop Bellows
CA, CB, CC = Right Angle with Hairpin Bellows



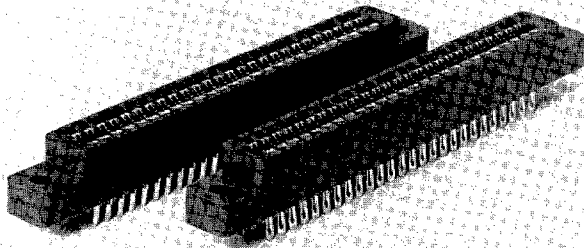
Connectors for Test and Burn-In



Connectors for Multi Bus I

.100 (2.54 mm) contact centers

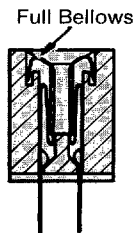
A-61-41-07



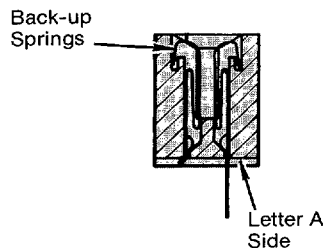
Features

- Multi Bus I P2 available in all configurations
- S-100 Bus available in all configurations
- Accommodates .062 ($\pm .008$) PC Board
- Solvent resistant insulator U.L. recognized
- Between contact polarization available
- 3 ampere current rating
- Contact resistance 10 milliohms max
- Bifurcated full bellows contacts
- Blue Valox or Green Ryton insulator

Readout



DUAL (D)

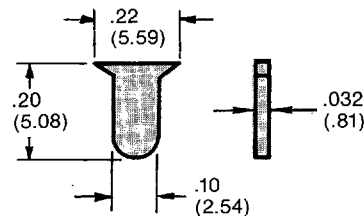


HALF LOADED (H)

Polarizing Key

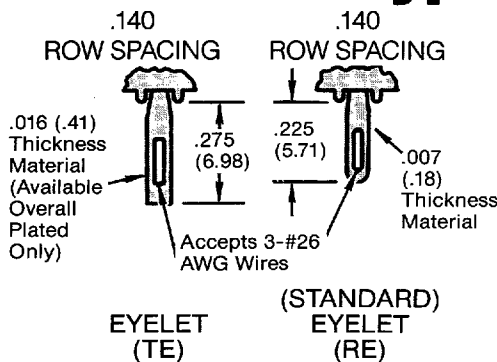
Order Separately

PLA-K1



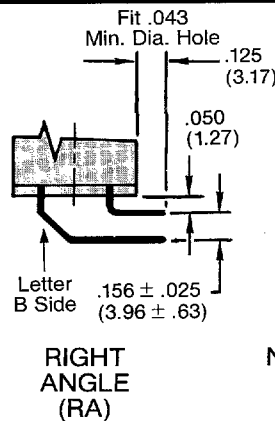
FOR KEYING
IN BETWEEN
CONTACTS

Termination Type

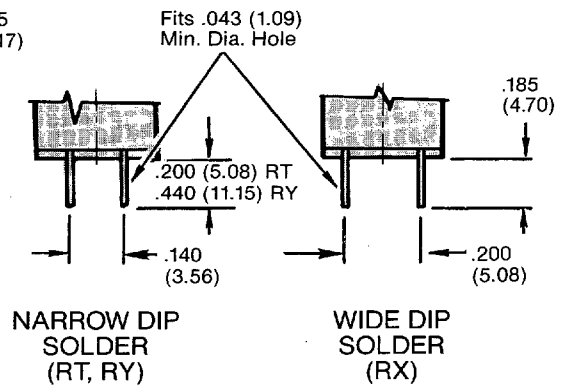


EYELET
(TE)

(STANDARD)
EYELET
(RE)



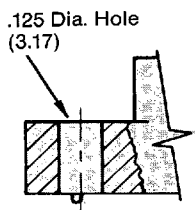
RIGHT
ANGLE
(RA)



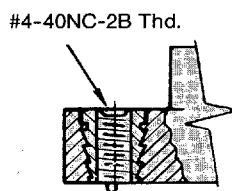
NARROW DIP
SOLDER
(RT, RY)

WIDE DIP
SOLDER
(RX)

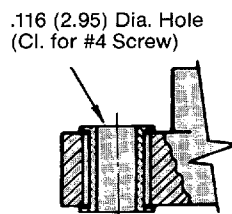
Mounting Style



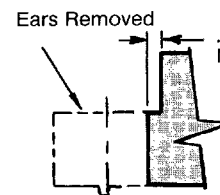
CLEARANCE
HOLE (H)



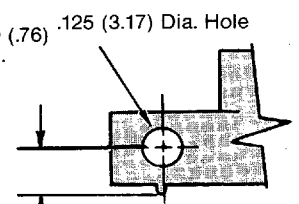
THREADED
INSERT (I)



FLOATING
BOBBIN (F)



NO MOUNTING
EARS (N)



SIDE
MOUNTING (S)

Low Profile Dip Solder/Eyelet Edgecard Connectors

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Fax/744-6081

Part Number Coding

MATERIALS (Insulator/Contact)

- E = Valox/Phosphor Bronze (Standard)
- H = Valox/Beryllium Copper
- R = Ryton/Phosphor Bronze
- A = Ryton/Beryllium Copper
- C = Ryton/Beryllium Nickel (Consult Factory)
- N = Peek/Beryllium Copper (Consult Factory)
- W = Peek/Beryllium Nickel (Consult Factory)
- F = Ryton/Pfinodal* (Consult Factory)

CONTACT FINISH

Contact Surface

- Z = .000010 Gold
- X = .000030 Gold
- G = .000010 Gold
- Y = .000030 Gold

Contact Surface

- T = .000100 Tin
- S = .000010 Gold
- M = .000030 Gold

Termination

- .000100 Tin
- .000100 Tin
- .000005 Gold
- .000005 Gold

Overall Plating

- .000100 Tin
- .000010 Gold
- .000010 Gold

CONTACT CENTERS

- C = .100 (2.54)

Termination

- .000050 Nickel underplate

MODIFICATIONS (Consult Factory)

OMIT FOR STANDARD

-S13 = Card Extender Formed to Fit .062 (1.57) PCB

MOUNTING STYLE

- H = Clearance Hole
- N = No Mounting Ears
- S = Side Mounting
- I = Threaded Insert
- F = Floating Bobbin

TERMINATION TYPE

- RA = Right Angle
- RE = Eyelet (Standard)
- TE = Eyelet (Overall Plated Only)
- RT = .140 (3.56) x .200 (5.08) Dip Solder
- RY = .140 (3.56) x .440 (11.15) Dip Solder
- RX = .200 (5.08) x .185 (4.70) Dip Solder

READOUT

- D = Dual
- H = Half Loaded

NUMBER OF CONTACT POSITIONS

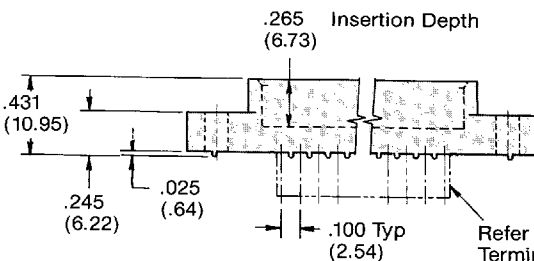
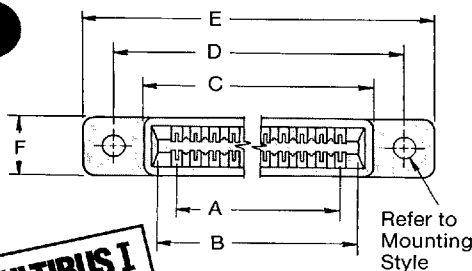
05 thru 60

See page 35 for additional modifications.

*High tin solder cannot be used with Pfinodal contacts in applications greater than 150°C. Consult factory for recommendation.

Dimensions

Dimensions in () are in millimeters, all others are in inches. Tolerance with Ryton Insulator material may vary slightly due to shrinkage differential; consult factory.



Contact Markings

- B 1 2 3 60B
- A 1 2 3 60A



PART NUMBER †	NUMBER OF CONTACTS	INCHES						MILLIMETERS					
		A ±.008	B ±.008	C ±.015	D ±.010	E ±.020	F ±.005	A ±0.20	B ±0.20	C ±0.38	D ±0.25	E ±0.51	F ±0.13
EZC05	5/10	0.400	0.600	0.775	1.075	1.375	.330	10.16	15.24	19.69	27.31	34.93	8.38
EZC06	6/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
EZC08	8/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
EZC10	10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
EZC12	12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
EZC13	13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
EZC15	15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
EZC18	18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
EZC19	19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
EZC20	20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
EZC22	22/44	2.100	2.300	2.475	2.775	3.075	.400	53.34	58.42	62.87	70.49	78.11	10.16
EZC25	25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
EZC26	26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
EZC28	28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
EZC30	30/60	2.900	3.100	3.275	3.575	3.875		73.66	78.74	83.19	90.81	98.43	
EZC31	31/62	3.000	3.200	3.375	3.675	3.975		76.20	81.28	85.73	93.35	100.97	
EZC35	35/70	3.400	3.600	3.775	4.075	4.375		86.36	91.44	95.89	103.51	111.13	
EZC36	36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
EZC40	40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
EZC43	43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
EZC44	44/88	4.300	4.500	4.675	4.975	5.275	.400	109.22	114.30	118.75	126.37	133.99	10.16
EZC49	49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
EZC50	50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
EZC60	60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	

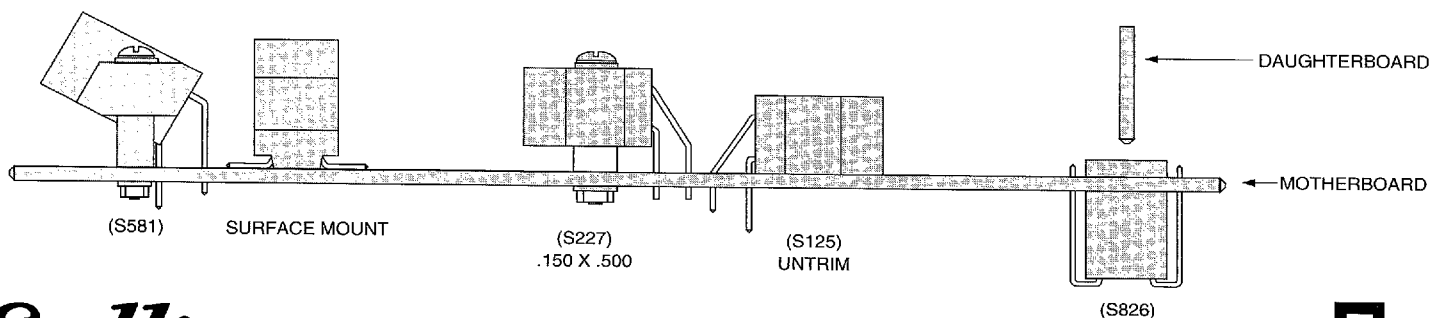
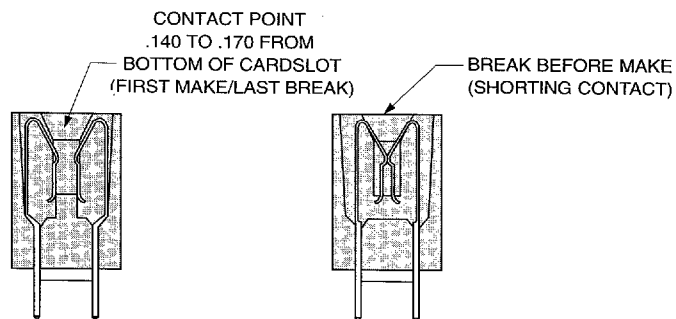
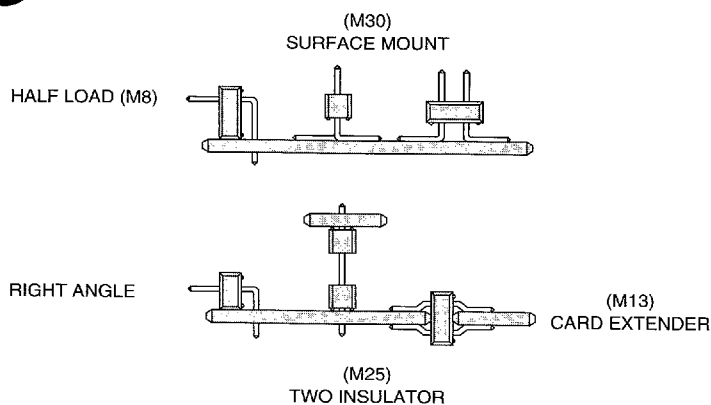
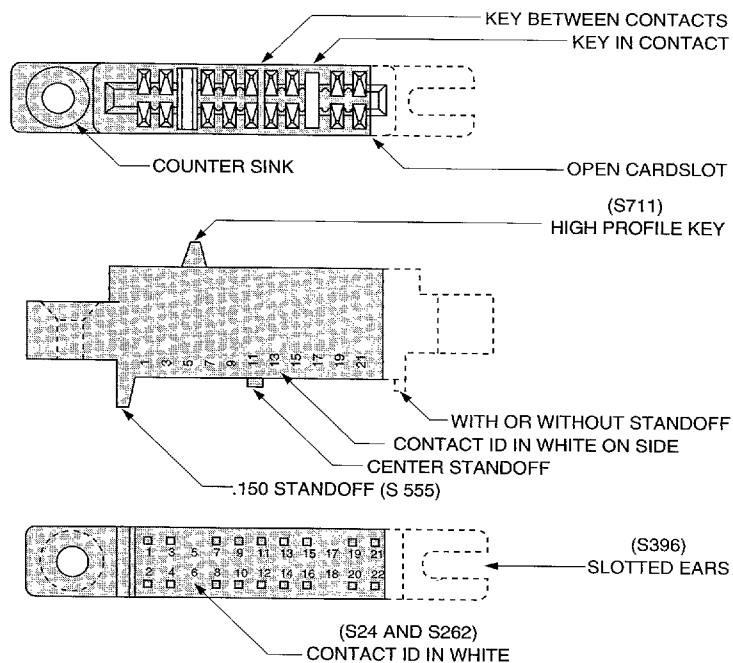
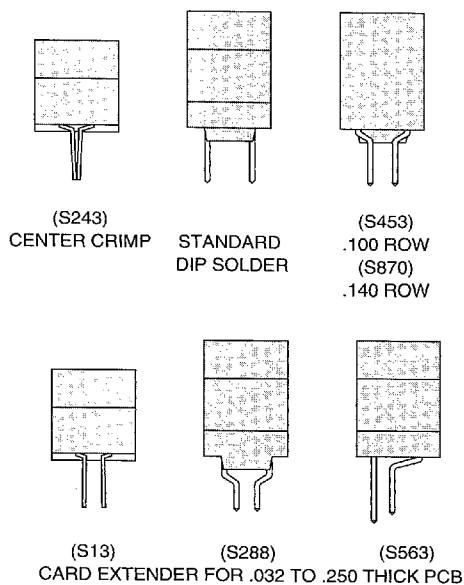
†For complete part number add readout, termination type and mounting style from Part Number Coding (e.g. EZC15DREH).

‡Consult factory for availability.

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Modifications

Consult factory for further details.



Sullins ELECTRONICS CORPORATION

Post Office Box 189 • San Marcos, California 92079-0189 U.S.A. • (619) 744-0125

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FAX (619) 744-6081

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