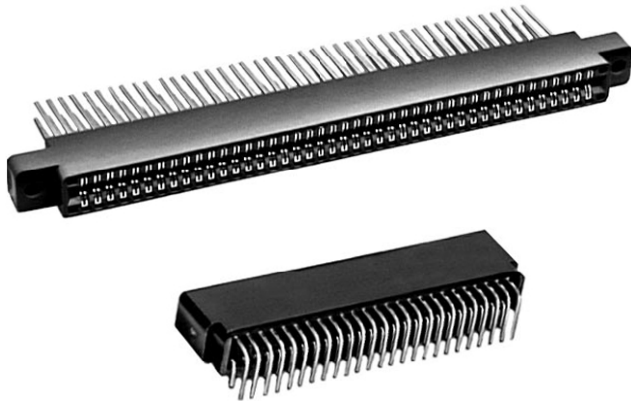


# Edgeboard Connectors, Dual Readout, 0.125" (3.17 mm) C-C, Standard and Right Angle Terminals



## ELECTRICAL SPECIFICATIONS

**Current Rating:** 3 A

**Test Voltage Between Contacts:**

at sea level: 1500 V<sub>RMS</sub>

At 70 000 feet (21 336 meters): 325 V<sub>RMS</sub>

**Insulation Resistance:** 5000 MΩ minimum at 500 V<sub>DC</sub> potential

**Contact Resistance:** 30 mV maximum at rated current (with gold plating)

**Operating Temperature:** -65 °C to +125 °C

**Humidity:** 96 h at 90 % relative humidity at +40 °C, dried at room temperature for 3 h minimum, insulation resistance was greater than 5000 MΩ

**Durability:** after 500 cycles of insertion and withdrawal of a 0.070" (1.78 mm) thick steel test board, contact resistance less than 0.030 V at 3 A on gold plated contacts and individual contact pair separation force when measured with a 0.054" (1.37 mm) thick steel test blade was greater than 1/2 oz.

**Shock:** three 50G shocks in each of 3 mutually perpendicular planes with no loss of continuity

**Vibration:** 2 h in each of 3 mutually perpendicular planes, frequency sweep 10 cps to 55 cps at 0.06 double amplitude with no loss of continuity

## FEATURES

- Grid patterns: 0.125" C-C x 0.150" (3.17 mm x 3.81 mm), 0.125" C-C x 0.200" (3.17 mm x 5.08 mm) and 0.125" C-C x 0.250" (3.17 mm x 6.35 mm)
- Standard and right angle terminals
- Greater design latitude:  
body materials: glass-filled polyester and glass-filled polyphenylene sulfide  
7 contact termination styles - 3 standard, 4 right angle  
19 body sizes and 6 mounting styles
- Selective gold plating
- Accepts PC board thickness of 0.054" to 0.071" (1.37 mm to 1.80 mm)
- Polarization between contact positions in all sizes.  
Between contact polarization permits polarizing without loss of contact position

## APPLICATIONS

For use with 0.0625" (1.59 mm) printed circuit boards requiring an edgeboard type connector on 0.125" (3.17 mm) centers

## MATERIAL SPECIFICATIONS

**Body Material:**

"3" thermoplastic polyester, glass-filled, black, flame retardant (UL 94 V-0)

"5" thermoplastic polyphenylene sulfide, glass filled, brown, flame retardant (UL 94 V-0)

**Contacts:** phosphor bronze (see Ordering Information)

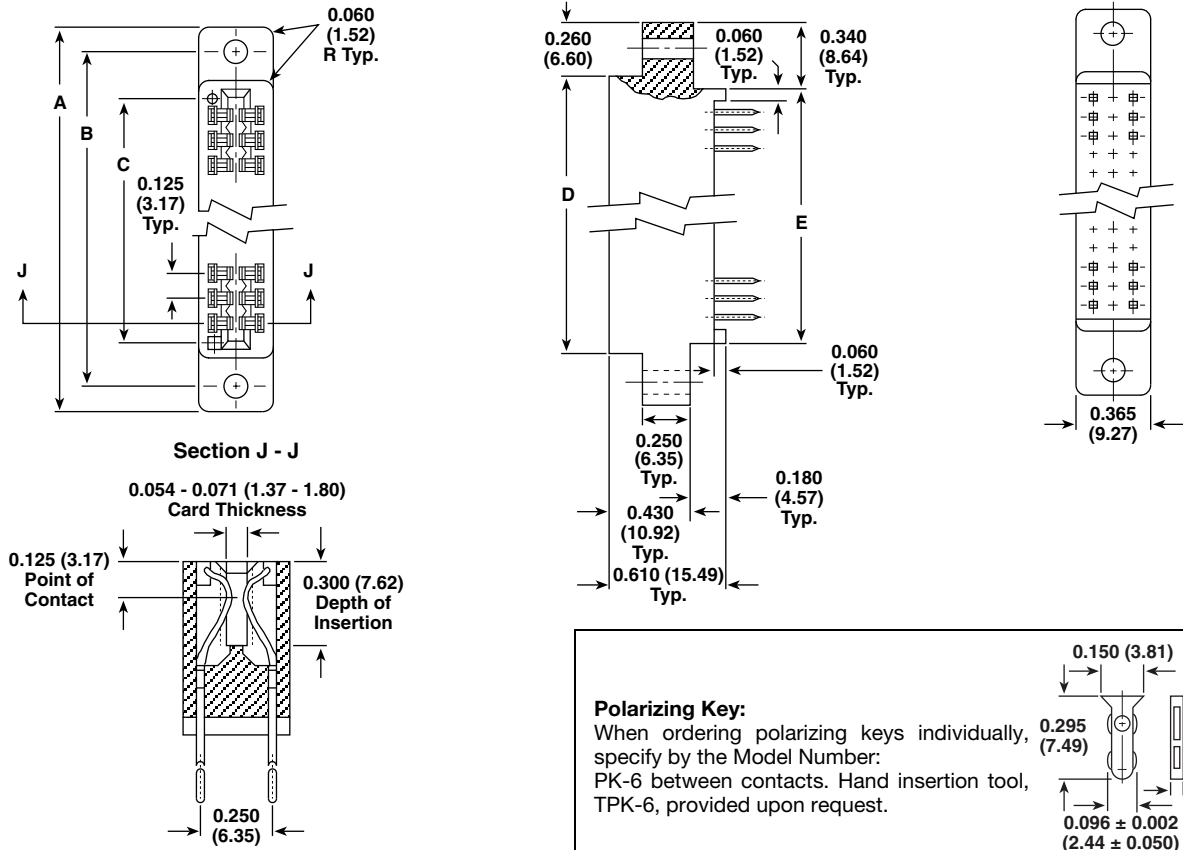
**Polarizing Key:** glass reinforced nylon, flame retardant (UL 94H-B)

**Plating:** gold (see Ordering Information)

## ORDERING INFORMATION

EB6	3	K	40	SG	X	15
MODEL	BODY MATERIAL	STANDARD TERMINAL VARIATIONS	CONTACTS PER SIDE	CONTACT PLATING	MOUNTING VARIATIONS	POLARIZING KEY POSITIONS
	3 = glass-filled polyester 5 = glass-filled polyphenylene sulfide	C, D, K 1R, 2R, 3R, 4R	6, 10, 12, 14, 15, 18, 22, 24, 25, 28, 30, 31, 32, 35, 36, 40, 43, 44, 49, and 50	SG = selective gold plating (0.00003" (0.000762 mm) minimum thick) on contact area with gold flash on terminal. SGF = selective gold plating (0.000010" (0.000254 mm) minimum thick) on contact area with gold flash on terminal. All gold plating over 0.00005" (0.00127 mm) minimum nickel underplate. Contact factory for additional plating options		Key(s) are located to right of position(s) designated. Use odd-numbered contact for ordering: -1, -3, -5, etc. Required only when polarizing keys are to be factory installed <b>Note:</b> to order polarizing keys individually, specify Model PK-6

**DIMENSIONS** in inches (millimeters)



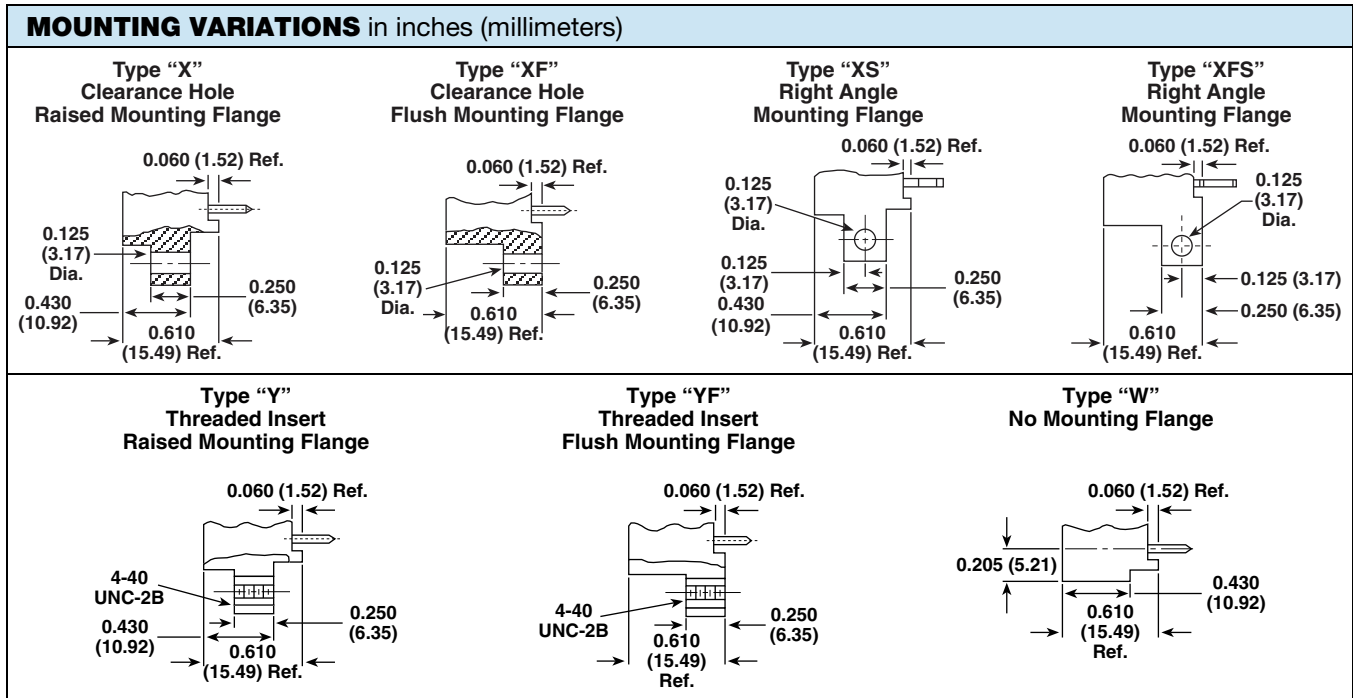
# OF CONTACT POSITIONS PER SIDE	A	B	C	D	E
6	1.555 (39.50)	1.295 (32.89)	0.875 (22.22)	1.035 (26.29)	0.875 (22.22)
10	2.055 (52.20)	1.795 (45.59)	1.375 (34.92)	1.535 (38.99)	1.375 (34.92)
12	2.305 (58.55)	2.045 (51.94)	1.625 (41.28)	1.785 (45.34)	1.625 (41.28)
14	2.555 (64.90)	2.295 (58.29)	1.875 (47.62)	2.035 (51.69)	1.875 (47.62)
15	2.680 (68.07)	2.420 (61.47)	2.000 (50.80)	2.160 (54.86)	2.000 (50.80)
18	3.055 (77.60)	2.795 (70.99)	2.375 (60.32)	2.535 (64.39)	2.375 (60.32)
22	3.555 (90.30)	3.295 (83.69)	2.875 (73.02)	3.035 (77.09)	2.875 (73.02)
24	3.805 (96.65)	3.545 (90.04)	3.125 (79.38)	3.285 (83.44)	3.125 (79.38)
25	3.930 (99.82)	3.670 (93.22)	3.250 (82.55)	3.410 (86.61)	3.250 (82.55)
28	4.305 (109.35)	4.045 (102.74)	3.625 (92.08)	3.785 (96.14)	3.625 (92.08)
30	4.555 (115.70)	4.295 (109.09)	3.875 (98.42)	4.035 (102.49)	3.875 (98.42)
31	4.680 (118.87)	4.420 (112.27)	4.000 (101.60)	4.160 (105.66)	4.000 (101.60)
32	4.805 (122.05)	4.545 (115.44)	4.125 (104.78)	4.285 (108.84)	4.125 (104.78)
35	5.180 (131.57)	4.920 (124.97)	4.500 (114.30)	4.660 (118.36)	4.500 (114.30)
36	5.305 (134.75)	5.045 (128.14)	4.625 (117.48)	4.785 (121.54)	4.625 (117.48)
40	5.805 (147.45)	5.545 (140.84)	5.125 (130.18)	5.285 (134.24)	5.125 (130.18)
43	6.180 (156.97)	5.920 (150.37)	5.500 (139.70)	5.660 (143.76)	5.500 (139.70)
44	6.305 (160.15)	6.045 (153.54)	5.625 (142.88)	5.785 (146.94)	5.625 (142.88)
49	6.930 (176.02)	6.670 (169.42)	6.250 (158.75)	6.410 (162.81)	6.250 (158.75)
50	7.055 (179.20)	6.795 (172.59)	6.375 (161.92)	6.535 (165.99)	6.375 (161.92)

**PHYSICAL SPECIFICATIONS**

**Contact Type:** bifurcated cantilever beam  
**Number of Contacts:** 6, 10, 12, 14, 15, 18, 22, 24, 25, 28, 30, 31, 32, 35, 36, 40, 43, 44, 49, and 50 per side  
**Contact Terminal Variation:** standard terminals  
**Type “C”** - dip solder, 0.025" (0.635 mm) square terminals, 0.175" (4.44 mm) nominal terminal length below standoffs  
**Type “D”** - dip solder, 0.025" (0.635 mm) square terminals, 0.115" (2.92 mm) nominal terminal length below standoffs  
**Type “K”** - Wire Wrap™, 0.025" (0.635 mm) square terminals, 0.570" (14.48 mm) nominal terminal length below standoffs  
**Contact Terminal Variation:** right angle terminals  
**Type “1R”** - dip solder, 0.025" (0.635 mm) square terminals, 0.120" (3.05 mm) nominal terminal length x 0.150" (3.81 mm) nominal terminal row spacing  
**Type “2R”** - dip solder, 0.025" (0.635 mm) square terminals, 0.120" (3.05 mm) nominal terminal length x 0.200" (5.08 mm) nominal terminal row spacing

**Type “3R”** - dip solder, 0.025" (0.635 mm) square terminals, 0.180" (4.57 mm) nominal terminal length x 0.150" (3.81 mm) nominal terminal row spacing  
**Type “4R”** - dip solder, 0.025" (0.635 mm) square terminals, 0.180" (4.57 mm) nominal terminal length x 0.200" (5.08 mm) nominal terminal row spacing  
**Contact Spacing:** 0.125" (3.17 mm) center to center  
**Contact Terminal Row Spacing:** standard - 0.250" (5.08 mm) nominal. Right angle - 0.200" (5.08 mm) nominal and 0.150" (3.81 mm) nominal  
**Card Thickness:** 0.054" to 0.071" (1.37 mm to 1.80 mm)  
**Card Slot Depth:** 0.300" (7.62 mm)  
**Connector Polarization:** between contact polarization key(s) are located to the right of the contact position(s) designated

**Note**  
 • High temperature burn-in, edgeboard connectors, with 0.125" (3.17 mm) center to center are on [www.vishay.com/doc?36006](http://www.vishay.com/doc?36006)



**TERMINAL VARIATIONS** in inches (millimeters)

Type “C” and “D” Solder Dip, Standard 0.025 (0.635) Square Terminals	Type “K” Wire Wrap™, Standard 0.025 (0.635) Square Terminals	Type “1R”, “2R”, “3R” and “4R” Right Angle 0.025 (0.635) Square Terminals	TYPE	A	B
<p>“C” = 0.175 (4.44)                      “D” = 0.115 (2.92)                      0.570 (14.48)</p>			1R	0.150 (3.81)	0.120 ± 0.030 (3.05 ± 0.762)
			2R	0.200 (5.08)	0.120 ± 0.030 (3.05 ± 0.762)
			3R	0.150 (3.81)	0.180 ± 0.030 (4.57 ± 0.762)
			4R	0.200 (5.08)	0.180 ± 0.030 (4.57 ± 0.762)



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