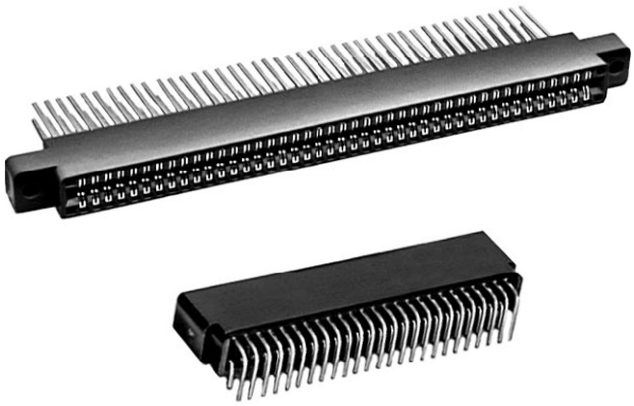
Edgeboard Connectors, Dual Readout, 0.125" (3.17 mm) C-C, Standard and Right Angle Terminals



ELECTRICAL SPECIFICATIONS

Current Rating: 3 A

Test Voltage Between Contacts:
at sea level: 1500 V_{RMS}
At 70 000 feet (21 336 meters): 325 V_{RMS}

Insulation Resistance: 5000 MΩ minimum at 500 V_{DC} 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 ½ 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 sulfied, glass filled, brown, flame retardant (UL 94 V-0)

Contacts: phosphor bronze (see Ordering Information)

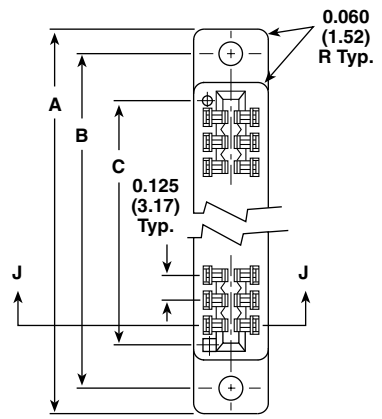
Polarizing Key: glass reinforced nylon, flame retardant (UL 94H-B)

Plating: gold (see Ordering Information)

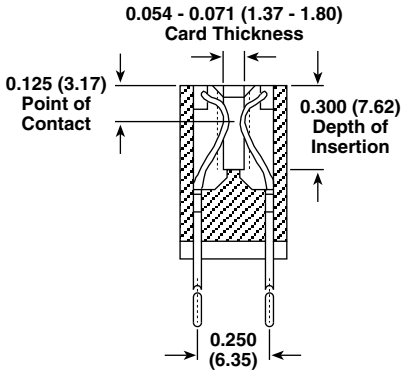
ORDERING INFORMATION

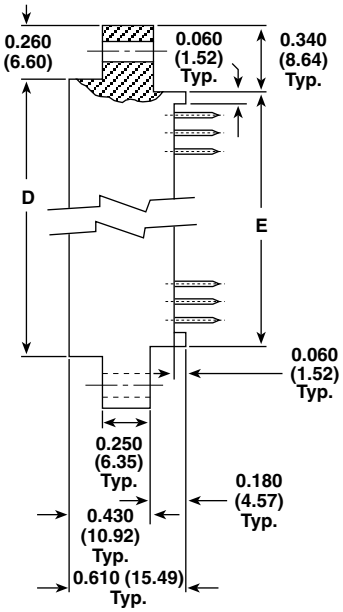
EB6	3	K	40	SG	X	15
MODEL	BODY MATERIAL 3 = glass-filled polyester 5 = glass-filled polyphenylene sulfide	STANDARD TERMINAL VARIATIONS C, D, K, 1R, 2R, 3R, 4R	CONTACTS PER SIDE 6, 10, 12, 14, 15, 18, 22, 24, 25, 28, 30, 31, 32, 35, 36, 40, 43, 44, 49, and 50	CONTACT PLATING SG = selective gold plating (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	MOUNTING VARIATIONS	POLARIZING KEY POSITIONS 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 **Note:** to order polarizing keys individually, specify Model PK-6

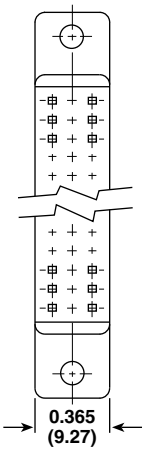
DIMENSIONS in inches (millimeters)



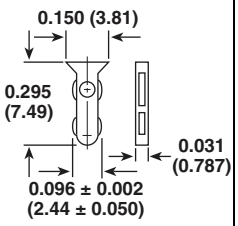
Section J - J







Polarizing Key:
When ordering polarizing keys individually, specify by the Model Number:
PK-6 between contacts. Hand insertion tool, TPK-6, provided upon request.



# 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)

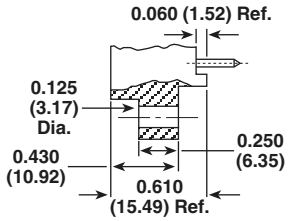
Connector Polarization: between contact polarization key(s) are located to the right of the contact position(s) designated

Note

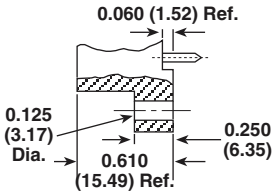
- High temperature burn-in, edgeboard connectors, with 0.125" (3.17 mm) center to center are on www.vishay.com/doc?36006

MOUNTING VARIATIONS in inches (millimeters)

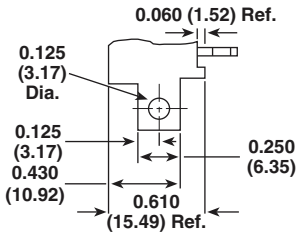
Type "X"
Clearance Hole
Raised Mounting Flange



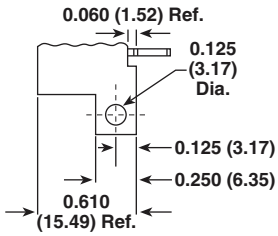
Type "XF"
Clearance Hole
Flush Mounting Flange



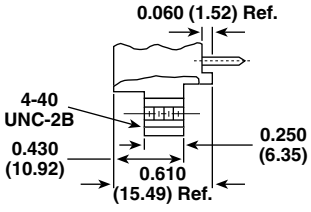
Type "XS"
Right Angle
Mounting Flange



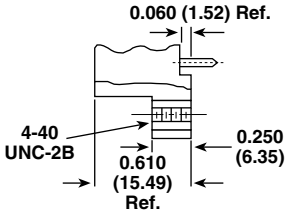
Type "XFS"
Right Angle
Mounting Flange



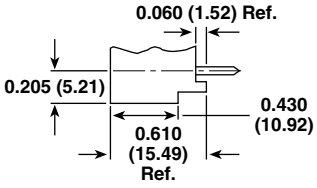
Type "Y"
Threaded Insert
Raised Mounting Flange



Type "YF"
Threaded Insert
Flush Mounting Flange

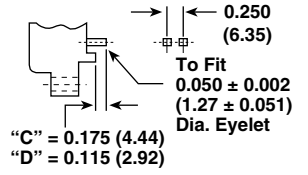


Type "W"
No Mounting Flange

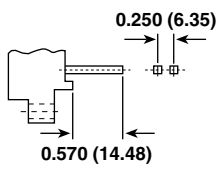


TERMINAL VARIATIONS in inches (millimeters)

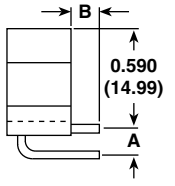
Type "C" and "D"
Solder Dip, Standard
0.025 (0.635) Square Terminals



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
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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