

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



ELECTRICAL SPECIFICATIONS

Current Rating: 3 amps.

Test Voltage Between Contacts:

At sea level: 1500VRMS.

At 70,000 feet [21,336 meters]: 325VRMS.

Insulation Resistance: 5000 Megohm minimum at 500VDC potential.

Contact Resistance: 30 millivolts maximum at rated current (with gold plating).

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

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

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

Shock: Three 50g shocks in each of 3 mutually perpendicular planes with no loss of continuity.

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

FEATURES

- Grid Patterns: 0.125" C-C x 0.150" [3.17mm x 3.81mm], 0.125" C-C x 0.200" [3.17mm x 5.08mm] and 0.125" C-C x 0.250" [3.17mm x 6.35mm].
- Standard and right angle terminals.
- Greater design latitude:
3 body materials: Diallyl phthalate, phenolic, glass-filled polyester and glass-filled polyphenylene sulfid.
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" [1.37mm to 1.80mm].
- Polarization between contact positions in all sizes.
Between contact polarization permits polarizing without loss of contact position.
- **Recognized under the Component Program of Underwriters Laboratories, Inc. Listed under File E65524, Project 77CH3889.**

APPLICATIONS

For use with 0.0625" [1.59mm] printed circuit boards requiring an edgeboard type connector on 0.125" [3.17mm] centers.

MATERIAL SPECIFICATIONS

Body Material:

"1" glass-filled diallyl phthalate per MIL-M-14, Type SDG-F green, flame retardant (UL 94V-0).

"2" glass-filled phenolic per MIL-M-14, Type MFH dark green, flame retardant (UL 94V-0).

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

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

Contacts: Phosphor bronze. (Ordering Information.)

Polarizing Key: Glass reinforced nylon, flame retardant (UL94H-B).

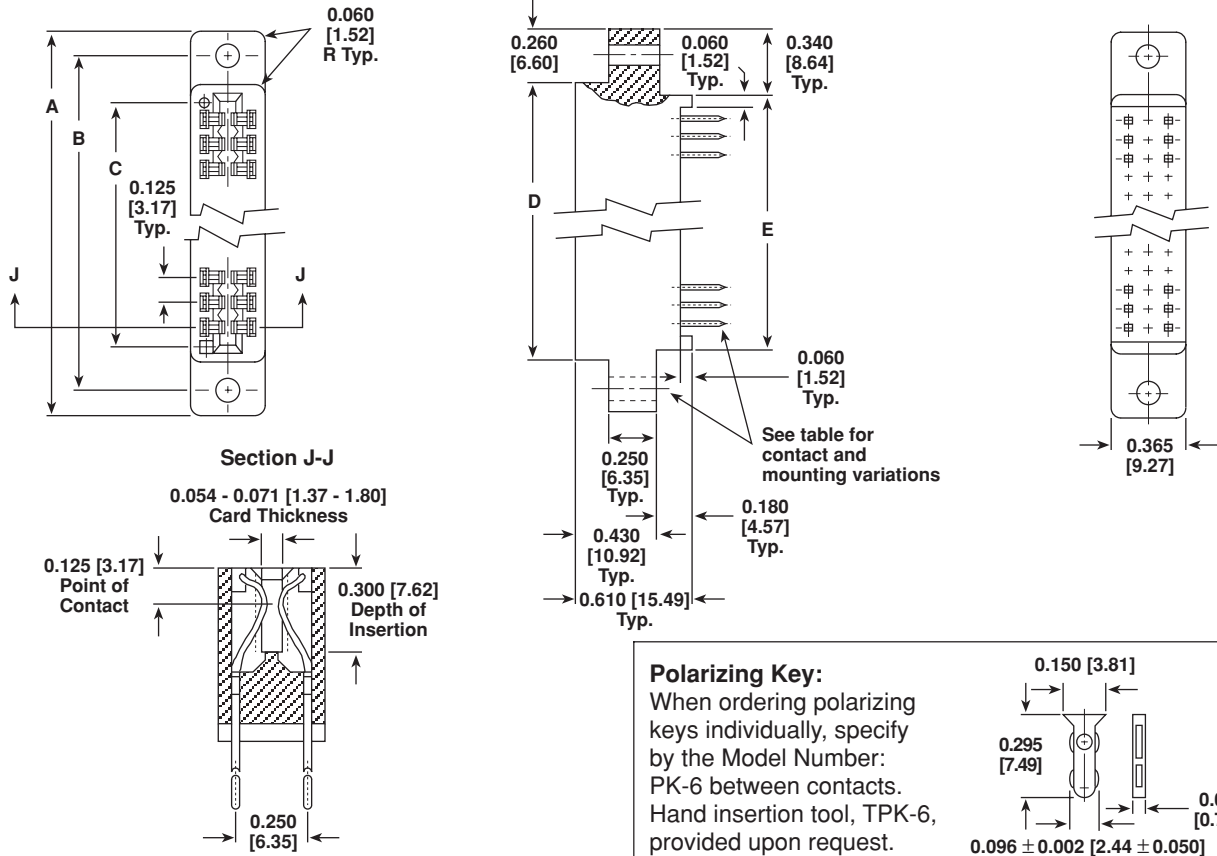
Plating: Gold. (Ordering Information.)

ORDERING INFORMATION

| EB6 MODEL | 3 BODY MATERIAL | K STANDARD TERMINAL VARIATIONS | 40 CONTACTS | SG CONTACT PLATING | X MOUNTING VARIATIONS | 15 POLARIZING KEY POSITIONS |
|--------------|--------------------------|---|---|---|-----------------------------|--|
| | 1 = Diallyl Phthalate | 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 per side. | SG = Selective Gold Plating (0.00003" [0.000762mm] minimum thick) on contact area with Gold Flash on terminal. SGF = Selective Gold Plating (0.000010" [0.000254mm] minimum thick) on contact area with Gold Flash on terminal. All Gold Plating over 0.00005" [0.00127mm] 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. NOTE: To order polarizing keys individually, specify Model PK-6. |

Vishay Dale Edgeboard Connectors, Dual Readout, 0.125" [3.17mm] C-C, Standard and Right Angle Terminals

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] |

Edgeboard Connectors, Dual Readout, 0.125" [3.17mm] C-C, Vishay Dale Standard and Right Angle Terminals

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" [0.635mm] square terminals, 0.175" [4.44mm] nominal terminal length below standoffs.

Type "D" - Dip Solder, 0.025" [0.635mm] square terminals, 0.115" [2.92mm] nominal terminal length below standoffs.

Type "K" - Wire Wrap™, 0.025" [0.635mm] square terminals, 0.570" [14.48mm] nominal terminal length below standoffs.

Contact Terminal Variation: Right angle terminals.

Type "1R" - Dip Solder, 0.025" [0.635mm] square terminals, 0.120" [3.05mm] nominal terminal length x 0.150" [3.81mm] nominal terminal row spacing.

Type "2R" - Dip Solder, 0.025" [0.635mm] square terminals, 0.120" [3.05mm] nominal terminal length x 0.200" [5.08mm] nominal terminal row spacing.

Type "3R" - Dip Solder, 0.025" [0.635mm] square terminals, 0.180" [4.57mm] nominal terminal length x 0.150" [3.81mm] nominal terminal row spacing.

Type "4R" - Dip Solder, 0.025" [0.635mm] square terminals, 0.180" [4.57mm] nominal terminal length x 0.200" [5.08mm] nominal terminal row spacing.

Contact Spacing: 0.125" [3.17mm] center to center.

Contact Terminal Row Spacing:

Standard - 0.250" [6.35mm] nominal.

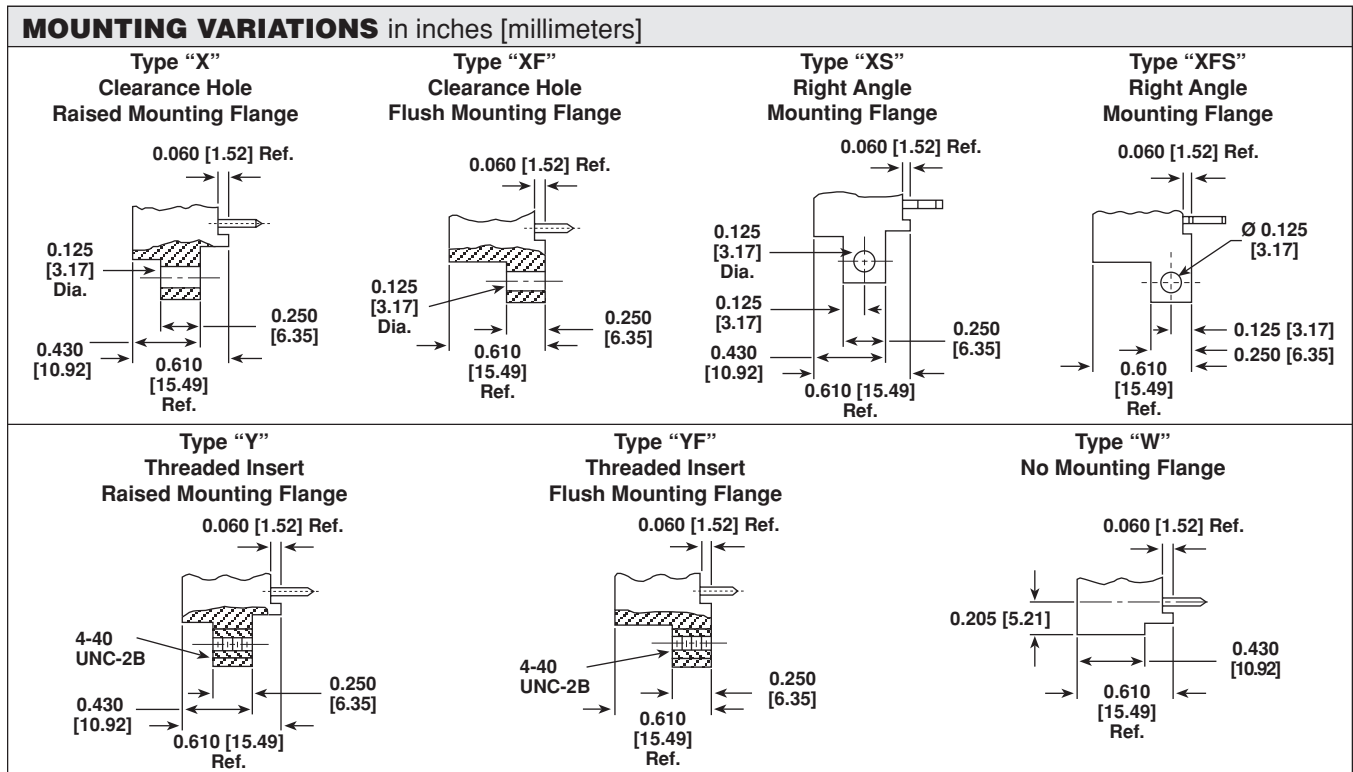
Right Angle - 0.200" [5.08mm] nominal and 0.150" [3.81mm] nominal.

Card Thickness: 0.054" to 0.071" [1.37mm to 1.80mm].

Card Slot Depth: 0.300" [7.62mm].

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" [3.17mm] center to center are on page 20 of this catalog.



TERMINAL VARIATIONS in inches [millimeters]

| | TYPE | A | B |
|---|------|--------------|------------------------------|
| Type "C" and "D" Solder Dip, Standard 0.025 [0.635] Square Terminals <p>"C" = 0.175 [4.44] "D" = 0.115 [2.92]</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] |
| Type "K" Wire Wrap™, Standard 0.025 [0.635] Square Terminals <p>0.570 [14.48]</p> | | | |
| Type "1R", "2R", "3R" and "4R" Right Angle 0.025 [0.635] Square Terminals <p>0.590 [14.99]</p> | | | |

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