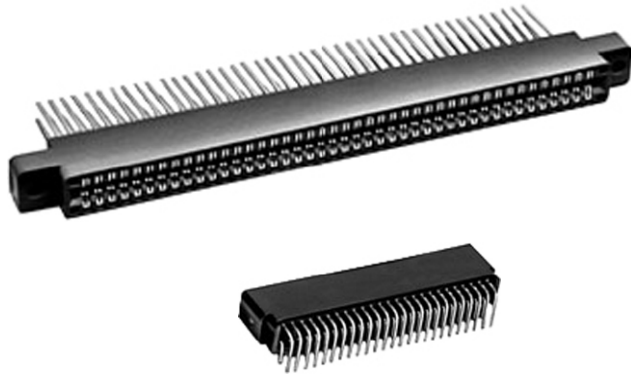


Edgeboard Connectors, Dual Readout, 0.100" (2.54 mm) C-C, Standard and Right Angle Terminals



ELECTRICAL SPECIFICATIONS

Current Rating: 3 A

Test Voltage Between Contacts:

At sea level: 650 V_{RMS}

At 70 000 feet (21 336 meters): 275 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: 0.100" C-C x 0.150" (2.54 mm x 3.81 mm) and 0.100" C-C x 0.200" (2.54 mm x 5.08 mm)
- Standard and right angle terminals
- Greater design latitude:
4 body materials: Diallyl phthalate, phenolic, glass-filled polyester and glass-filled polyphenylene sulfied
7 contact termination styles - 3 standard, 4 right angle
20 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.
- **Recognized under the Component Program of Underwriters Laboratories, Inc. listed under file E65524, project 77CH3889**

APPLICATIONS

For use with 0.0625" (1.59 mm) printed circuit boards requiring an edgeboard type connector on 0.100" (2.54 mm) centers

MATERIAL SPECIFICATIONS

Body Material:

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

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

"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

| EB4 | 3 | K | 20 | SG | X | 15 |
|-------|--|------------------------------|-------------------|---|---------------------|---|
| MODEL | BODY MATERIAL | STANDARD TERMINAL VARIATIONS | CONTACTS PER SIDE | CONTACT PLATING | MOUNTING VARIATIONS | POLARIZING KEY POSITIONS |
| | 1 = Diallyl Phthalate | C, D, K, | 6, 10, 12, | SG = Selective gold plating (0.00003" (0.000762 mm) minimum thick) on contact area with gold flash on terminal. | | 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-4. |
| | 2 = Phenolic | 1R, 2R, | 15, 18, 20, | SGF = Selective gold plating (0.000010" (0.000254 mm) minimum thick) on contact area with gold flash on terminal. | | |
| | 3 = Glass-filled Polyester | 3R, 4R | 22, 25, 28, | All gold plating over 0.00005" (0.00127 mm) minimum nickel underplate. | | |
| | 5 = Glass-filled Polyphenylene Sulfied | | 30, 31, 35, | Contact factory for additional plating options. | | |
| | | | 36, 40, 43, | | | |
| | | | 44, 48, 49, | | | |
| | | | 50, 60, | | | |
| | | | and 65 | | | |

Edgeboard Connectors, Dual Readout, 0.100" (2.54 mm) C-C, Standard and Right Angle Terminals

Vishay Dale



PHYSICAL SPECIFICATIONS

Contact Type: Bifurcated cantilever beam

Number of Contacts: 10, 12, 15, 18, 20, 22, 25, 28, 30, 31, 35, 36, 40, 43, 44, 48, 49, 50, 60 and 65 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: 0.100" (2.54 mm) center to center

Contact Terminal Row Spacing: Standard - 0.200" (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 0.100" (2.54 mm) center to center are on www.vishay.com/doc?36006



TERMINAL VARIATIONS in inches (millimeters)

| 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) |

Type "C" and "D" Solder Dip, Standard 0.025 (0.635) Square Terminals: 0.200 (5.08) center to center, To Fit 0.050 ± 0.002 (1.27 ± 0.051) Dia. Eyelet. "C" = 0.175 (4.44), "D" = 0.115 (2.92)

Type "K" Wire Wrap™, Standard 0.025 (0.635) Square Terminals: 0.200 (5.08) center to center, 0.570 (14.48) terminal length

Type "1R", "2R", "3R" and "4R" Right Angle 0.025 (0.635) Square Terminals: 0.590 (14.99) terminal length, A and B dimensions as per table above.



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