Vishay Dale

EB6



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  $M\Omega$  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 M $\Omega$ 

**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  $\frac{1}{2}$  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 option: "between contacts" positions available (to be installed by customer); "between contacts" 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

**Contacts:** phosphor bronze (see ordering information table)

**Polarizing Key:** glass reinforced nylon, flame retardant **Plating:** gold (see ordering information table)

EB6	3	- к	40	SG	х
MODEL	BODY MATERIAL	TERMINAL VARIATIONS	CONTACTS PER SIDE	CONTACT PLATING	MOUNTING VARIATIONS
	3 = glass-filled polyester	C, D, K, 1R, 2R, 3R, or 4R	6, 10, 12, 14, 15, 18, 22, 24, 25, 28, 30, 31, 32, 35, 36, 40, 43, 44, 49, or 50	SG = selective gold plating (0.00003" = 0.000762 mm min. thick) on contact area with gold flash on terminal SGF = selective gold plating (0.000010" = 0.000254 mm min. thick) on contact area with gold flash on terminal All gold plating uses 0.00005" = 0.00127 mm min. nickel underplate Contact factory for additional plating options	X, XF, XS, XFS, Y, YF, or W

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1 For technical questions, contact: <u>connectors@vishay.com</u> Document Number: 36002

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# ORDERING INFORMATION

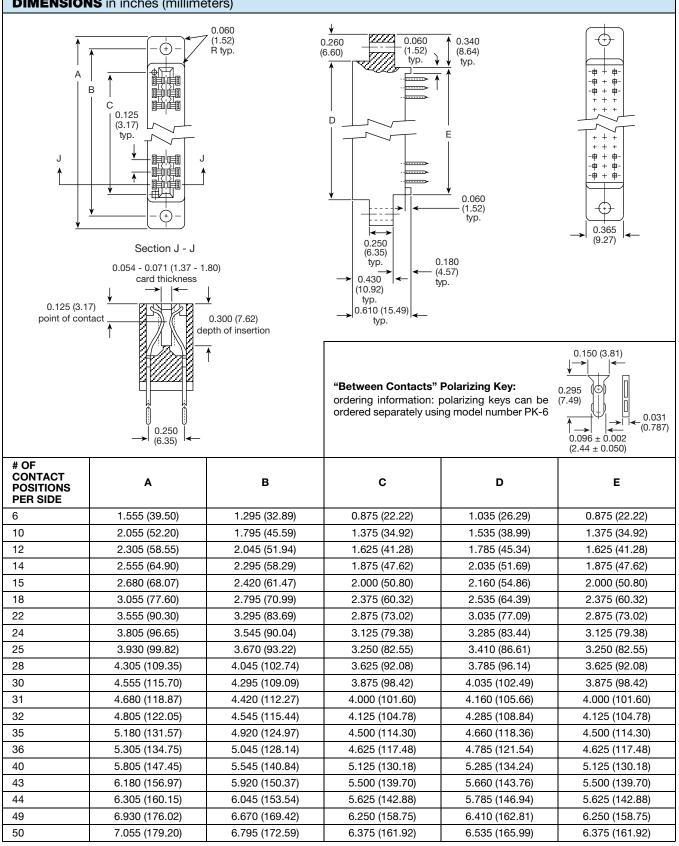


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#### **DIMENSIONS** in inches (millimeters)



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## 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

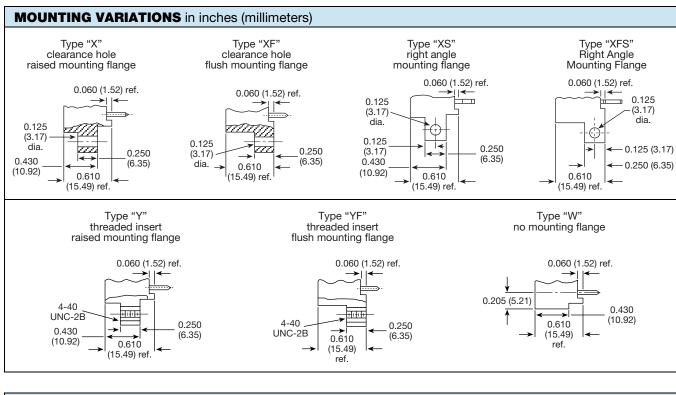
Type "1R" - dip solder, 0.025" (0.635 mm) square terminals, 0.120" (3.05 mm) nominal terminal length x 0.150" (3.81 mm) nominal terminal row spacing

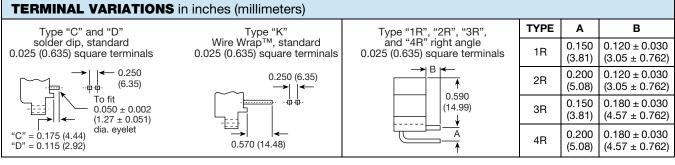
Type "2R" - dip solder, 0.025" (0.635 mm) square terminals, 0.120" (3.05 mm) nominal terminal length x 0.200" (5.08 mm) nominal terminal row spacing Type "3R" - dip solder, 0.025" (0.635 mm) square terminals, 0.180" (4.57 mm) nominal terminal length x 0.150" (3.81 mm) nominal terminal row spacing Type "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)

#### Note

(3.17 mm) center to center are on www.vishay.com/doc?36006





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High temperature burn-in, edgeboard connectors, with 0.125"

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