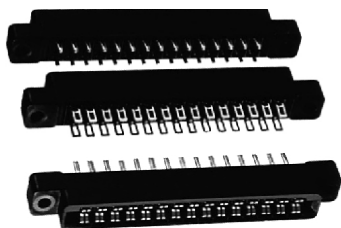


## Edgeboard Connectors, Dual Readout



### ELECTRICAL SPECIFICATIONS

**Current Rating:** 5 A

**Test Voltage Between Contacts:**

At sea level: 1800 V<sub>RMS</sub>

At 70 000 feet (21 336 meters): 450 V<sub>RMS</sub>

**Insulation Resistance:** 5000 M $\Omega$  minimum at 500 V<sub>DC</sub> potential

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

**Operating Temperature:** -55 °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:** (with gold plating) after 500 cycles of insertion and withdrawal of a 0.070" (1.78 mm) thick steel test gauge, contact resistance less than 0.030 V at 5 A and individual contact retention force when measured with 0.054" (1.37 mm) thick steel test slug greater than ½ oz.

**Shock:** three 50 g 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

### PHYSICAL SPECIFICATIONS

**Contact Type:** bifurcated bellows

**Number of Contacts:** 6, 10, 12, 15, 18, 22, 24, 25 per side

**Contact Spacing:** 0.156" (3.96 mm) center to center

**Card Thickness:** 0.054" to 0.071" (1.37 mm to 1.80 mm)

**Card Slot Depth:** dual readout = 0.330" (8.38 mm)

#### Note

- High temperature burn-in, edgeboard connectors, 0.156" (3.96 mm) center to center are on [www.vishay.com/doc?36006](http://www.vishay.com/doc?36006)

### FEATURES

- 0.156" C-C x 0.200" grid (3.96 mm x 5.08 mm)
- Greater design latitude
  - 3 body materials: diallyl phthalate, phenolic and glass-filled polyester
  - 6 contact termination styles, 8 body sizes, 7 mounting styles
- Bifurcated bellows contacts provide 2 flexing contact surfaces to assure positive contact
- Accepts PC board thickness of 0.054" to 0.071" (1.37 mm to 1.80 mm)
- Polarization between contact positions in all sizes
- Selective gold plating

### APPLICATIONS

For use with 0.062" (1.57 mm) printed circuit boards requiring an edgeboard type connector on 0.156" (3.96 mm) centers.

### MATERIAL SPECIFICATIONS

#### Body:

"1" glass-filled diallyl phtalate 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 sulfided, glass-filled, brown, flame retardant (UL 94 V-0)

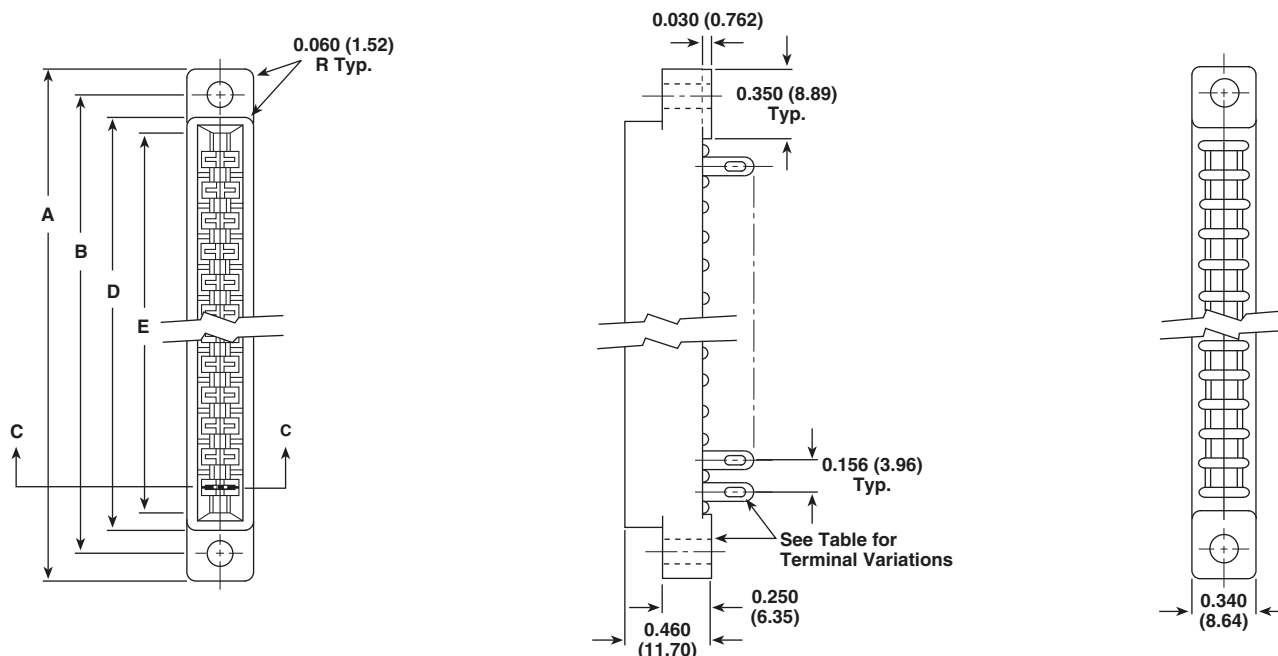
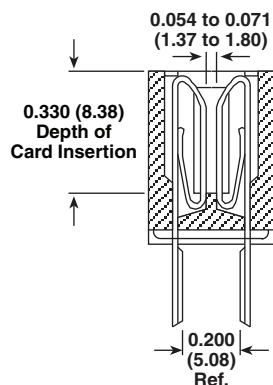
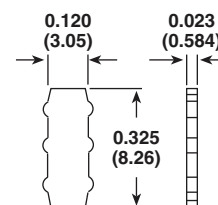
**Contacts:** phosphor bronze

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

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

### ORDERING INFORMATION

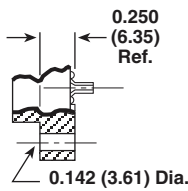
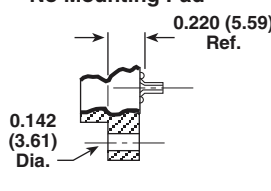
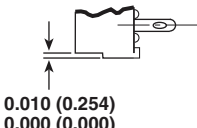
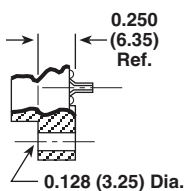
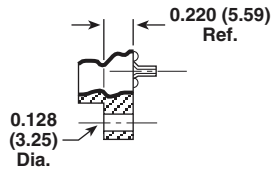
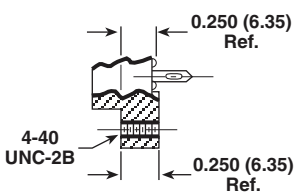
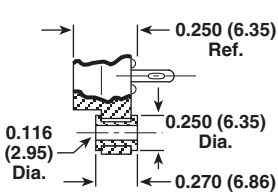
EB8	1	A	22	SG	X	A
MODEL	BODY MATERIAL	STANDARD TERMINAL VARIATIONS	CONTACTS PER SIDE	CONTACT PLATING	MOUNTING VARIATIONS	POLARIZING KEY POSITIONS
	Optional body material 1 = diallyl phthalate 2 = phenolic 3 = glass-filled polyester 5 = glass-filled polyphenylene sulfided	A, C, D, K, L, or E	6, 10, 12, 15, 18, 22, 24 or 25	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. Required only when polarizing keys are to be factory installed

**DIMENSIONS** in inches (millimeters)

**Section C to C:**

**Polarizing Key:**


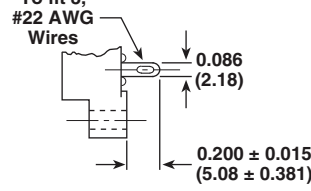
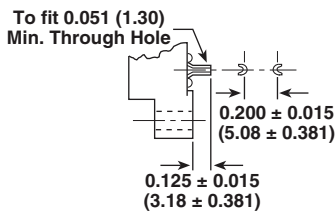
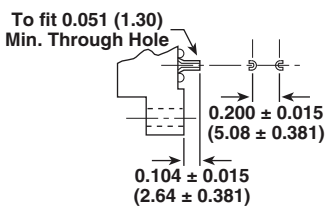
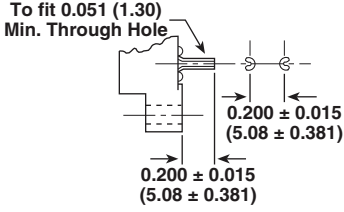
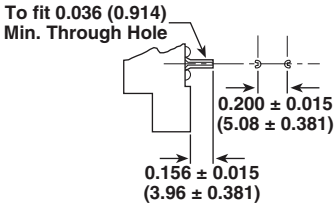
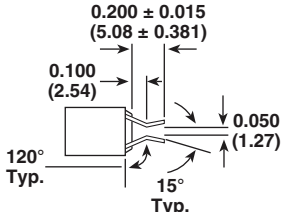
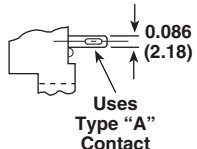
When ordering polarizing keys individually, specify by the model number:  
PK-8 between contacts. Hand insertion tool, TPK-8, provided upon request.

# OF CONTACT POSITIONS	A	B	D	E
6	1.78 (45.21)	1.531 (38.89)	1.240 (31.50)	1.100 (27.94)
10	2.41 (61.21)	2.156 (54.76)	1.864 (47.35)	1.724 (43.79)
12	2.72 (69.09)	2.469 (62.71)	2.176 (55.27)	2.036 (51.71)
15	3.19 (81.03)	2.937 (74.60)	2.644 (67.16)	2.504 (63.60)
18	3.66 (92.96)	3.406 (86.51)	3.112 (79.05)	2.972 (75.49)
22	4.28 (108.71)	4.031 (102.39)	3.736 (94.89)	3.596 (91.34)
24	4.59 (116.59)	4.344 (110.33)	4.051 (102.89)	3.911 (99.34)
25	4.75 (120.65)	4.500 (114.30)	4.207 (106.86)	4.067 (103.30)

**MOUNTING VARIATIONS** in inches (millimeters)

<p><b>Type "V"</b> Clearance Hole</p>  <p>0.250 (6.35) Ref. 0.142 (3.61) Dia.</p>	<p><b>Type "VI"</b> Clearance Hole No Mounting Pad</p>  <p>0.220 (5.59) Ref. 0.142 (3.61) Dia.</p>	<p><b>Type "W"</b> No Mounting Flange</p>  <p>0.010 (0.254) 0.000 (0.000)</p>	<p><b>Type "X"</b> Clearance Hole</p>  <p>0.250 (6.35) Ref. 0.128 (3.25) Dia.</p>
<p><b>Type "XI"</b> Clearance Hole No Mounting Pad</p>  <p>0.220 (5.59) Ref. 0.128 (3.25) Dia.</p>	<p><b>Type "Y"</b> Threaded Insert</p>  <p>0.250 (6.35) Ref. 4-40 UNC-2B 0.250 (6.35) Ref.</p>	<p><b>Type "Z"</b> Floating Bushing Radial Float 0.047 (1.19)</p>  <p>0.250 (6.35) Ref. 0.250 (6.35) Dia. 0.270 (6.86) 0.116 (2.95) Dia.</p> <p>Note: Overall body length increased by 0.060 (1.52)</p>	

**TERMINAL VARIATIONS** in inches (millimeters)

<p><b>Type "A"</b> Pierced</p>  <p>To fit 3, #22 AWG Wires 0.086 (2.18) 0.200 ± 0.015 (5.08 ± 0.381)</p>	<p><b>Type "C"</b></p>  <p>To fit 0.051 (1.30) Min. Through Hole 0.200 ± 0.015 (5.08 ± 0.381) 0.125 ± 0.015 (3.18 ± 0.381)</p>	<p><b>Type "D"</b> Solder Dip</p>  <p>To fit 0.051 (1.30) Min. Through Hole 0.200 ± 0.015 (5.08 ± 0.381) 0.104 ± 0.015 (2.64 ± 0.381)</p>
<p><b>Type "K"</b> Solder Dip</p>  <p>To fit 0.051 (1.30) Min. Through Hole 0.200 ± 0.015 (5.08 ± 0.381) 0.200 ± 0.015 (5.08 ± 0.381)</p>	<p><b>Type "L"</b> Solder Dip</p>  <p>To fit 0.036 (0.914) Min. Through Hole 0.200 ± 0.015 (5.08 ± 0.381) 0.156 ± 0.015 (3.96 ± 0.381)</p>	<p><b>Type "E"</b> Card Extender</p>  <p>0.200 ± 0.015 (5.08 ± 0.381) 0.100 (2.54) 0.050 (1.27) 120° Typ. 15° Typ.</p>
<p><b>Uses Type "A" Contact</b></p>  <p>0.086 (2.18)</p>		



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