EB4

Vishay Dale

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

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

• 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)

Selective gold plating

FEATURES

- 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	к	20	SG	х	15					
MODEL	BODY MATERIAL 1 = Diallyl Phthalate 2 = Phenolic 3 = Glass-filled Polyester 5 = Glass-filled Polyphenylene Sulfied	STANDARD TERMINAL VARIATIONS C, D, K, 1R, 2R, 3R, 4R	CONTACTS PER SIDE 6, 10, 12, 15, 18, 20, 22, 25, 28, 30, 31, 35, 36, 40, 43, 44, 48, 49, 50, 60, and 65	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-4.					

ELECTRICAL SPECIFICATIONS

Current Rating: 3 A

Test Voltage Between Contacts:

At sea level: 650 V_{BMS} At 70 000 feet (21 336 meters): 275 V_{RMS}

Insulation Resistance: 5000 M Ω 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 Ω

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

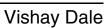






DIMENSIONS in inches (millimeters)

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



EB4

DIMENSION					
	0.100 0.001 0.107 0.001 (1.37 - 1.80) Card Thickness 0.300 (7. Depth d Insertic 1.80 0.300 (7. Depth d Insertic	62) of	0.250 Ty 0.250 contact mounti 0.430 0.180 0.430 (4.57) 10.92) Typ. 610 (15.49) Typ. Polarizing Key: Polarizing Key:	9)).)60 52) ip.	$\begin{array}{c} & & & & & \\ & & & & \\ & & &$
	→ 0.200 (5.08)		specify by the Model N	lumber: ts. Hand insertion tool,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
# OF CONTACT POSITIONS PER SIDE	А	В	С	D	E
6	1.435 (36.45)	1.175 (29.85)	0.700 (17.78)	0.860 (21.84)	0.750 (19.05)
10	1.835 (46.61)	1.575 (40.00)	1.100 (27.94)	1.260 (32.00)	1.150 (29.21)
12	2.035 (51.69)	1.775 (45.08)	1.300 (33.02)	1.460 (37.08)	1.350 (34.29)
15	2.335 (59.31)	2.075 (52.70)	1.600 (40.64)	1.760 (44.70)	1.650 (41.91)
18	18 2.635 (66.93)		1.900 (48.26)	2.060 (52.32)	1.950 (49.53)
20	2.835 (72.01)	2.575 (65.40)	2.100 (53.34)	2.260 (57.40)	2.150 (54.61)
22	3.035 (77.09)	2.775 (70.48)	2.300 (58.42)	2.460 (62.48)	2.350 (59.69)
25	3.335 (84.71)	3.075 (78.10)	2.600 (66.04)	2.760 (70.10)	2.650 (67.31)
28	3.635 (92.33)	3.375 (85.72)	2.900 (73.66)	3.060 (77.72)	2.950 (74.93)
30	3.835 (97.41)	3.575 (90.80)	3.100 (78.74)	3.260 (82.80)	3.150 (80.01)
31	3.935 (99.95)	3.675 (93.34)	3.200 (81.28)	3.360 (85.34)	3.250 (82.55)
35	4.335 (110.11)	4.075 (103.50)	3.600 (91.44)	3.760 (95.50)	3.650 (92.71)
36	4.435 (112.65)	4.175 (106.04)	3.700 (93.98)	3.860 (98.04)	3.750 (95.25)
40	4.835 (122.81)	4.575 (116.20)	4.100 (104.14)	4.260 (108.20)	4.150 (105.41)
43	5.135 (130.43)	4.875 (123.82)	4.400 (111.76)	4.560 (115.82)	4.450 (113.03)
44	5.235 (132.97)	4.975 (126.36)	4.500 (114.30)	4.660 (118.36)	4.550 (115.57)
48	5.635 (143.13)	5.375 (136.52) 5.475 (139.06)	4.900 (124.46)	5.060 (128.52)	4.950 (125.73)
			5.000 (127.00)	5.160 (131.06)	5.050 (128.27)
	50 5.835 (148.21) 60 6 825 (172.61)		5.100 (129.54)	5.260 (133.60)	5.150 (130.81)
60	6.835 (173.61)	6.575 (167.00)	6.100 (154.94)	6.260 (159.00)	6.150 (156.21)
65	7.335 (186.31)	7.075 (179.70)	6.600 (167.64)	6.760 (171.70)	6.650 (168.91)



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

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 WrapTM, 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

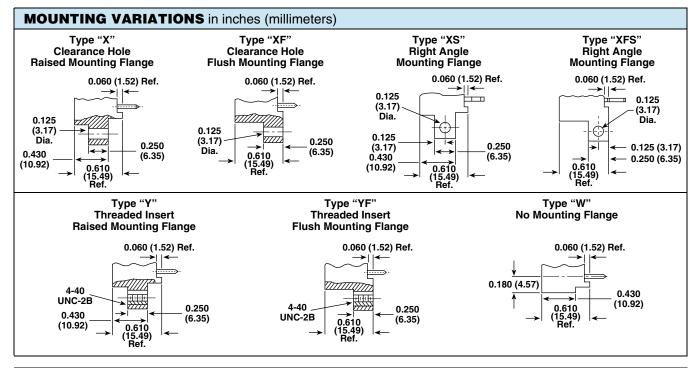
Card Thickness: 0.054" to 0.071" (1.37 mm to 1.80 mm)

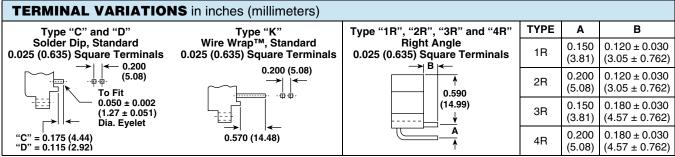
Card Slot Depth: 0.300" (7.62 mm)

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 <u>www.vishay.com/doc?36006</u>







Vishay

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