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Datasheet of MMA23-0341R1 - CONN RACK/PANEL 34POS 5A

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MM22, MM24

Vishay Dale

Rack and Panel Connectors Military, MIL-C-28748/7/8 Qualified and Commercial Microminiature Rectangular



FEATURES

- Qualified to MIL-C-28748/7/8
- · Solder cup contacts
- Dip solder contacts
- · Fixed and turnable screwlocks
- Optional closed entry socket contacts

APPLICATIONS

Especially suited for use in airborne, instrumentation and portable equipment applications or wherever the following requirements must be met: Minimum space and weight without sacrifice of performance, high quality materials, long service life, high vibration and shock resistance and positive locking.

ELECTRICAL SPECIFICATIONS

Current Rating: Model MM22 = 5 A

Model MM24 = 3 A

Breakdown Voltage: At sea level: 2000 V_{RMS}

At 70 000 feet: 500 V_{RMS}

MATERIAL SPECIFICATIONS

Contact Pin: Phosphor bronze

Contact Socket: Phosphor bronze (Beryllium copper

available on request)

Contact Plating: Gold

Screwlocks: Stainless steel, passivated

Guides: Brass, gold plated or stainless steel, passivated **Standard Body:** Glass-filled diallyl phthalate per MIL-M-14,

Model SDG-F, green

DIMENSIONS in inches [millimeters]									
MMS With Solder Cup Contacts	MMP With Solder Cup Contacts	MMDS With Dip Solder 0.030 [0.762] → ←	Contacts With Dip	MMDP With Dip Solder Contacts					
0.110 [2.79] Typ. → 0.034 [0.864] Dia. Solder Cup	0.140 [3.56]	D 1	0.140 [3.56]	0.140 [3.56] D					
CONTACT GAUGE	B DIAMETER	CONTACT GAUGE	C DIP TAIL LENGTH	D DIAMETER					
22 AWG	0.030 ± 0.001 [0.762 ± 0.025]	22 AWG	0.160 or 0.350 [4.06 or 8.89] nom.	0.025 [0.635]					
24 AWG	0.025 ± 0.001 [0.635 ± 0.025]	24 AWG	0.160 or 0.350 [4.06 or 8.89] nom.	0.025 [0.635]					

Revision: 24-Feb-14 **1** Document Number: 36008



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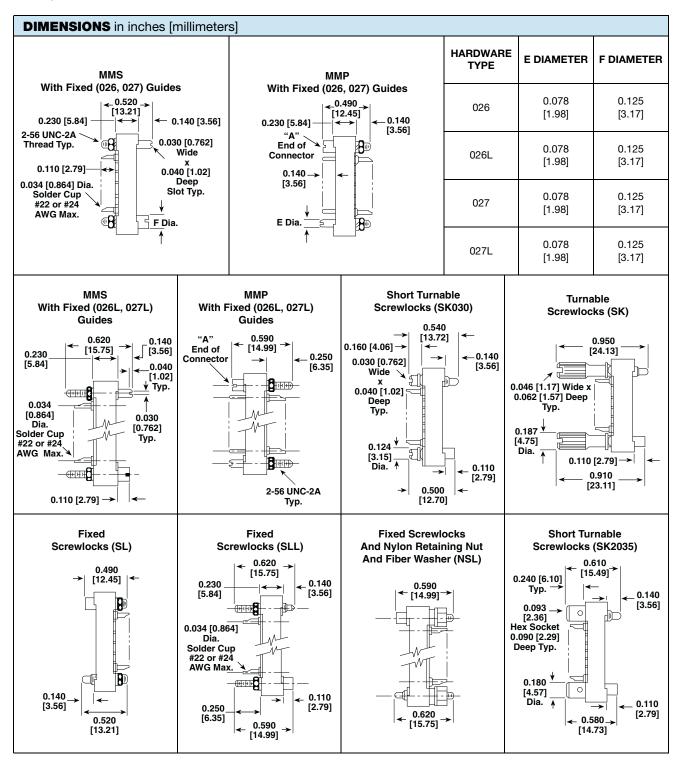
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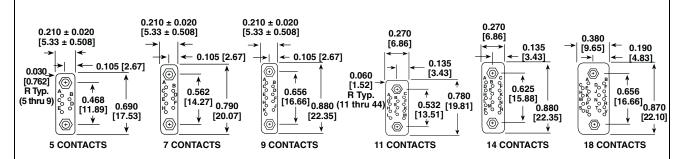
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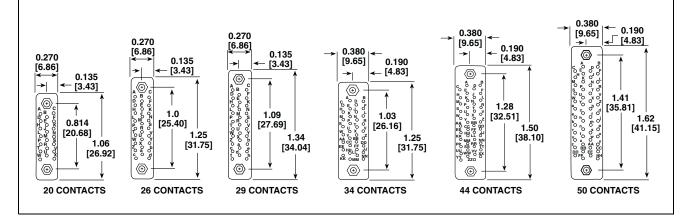
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HARDWARE MATING CHART							
HARDWARE MODEL	MATES WITH HARDWARE MODEL						
026	026, 026L	NOTE: EITHER MMP OR MMS CONNECTORS MAY BE					
027	027, 027L	ORDERED WITH ANY TYPE OF HARDWARE SHOWN.					
SK	SL, NSL or SLL	EXAMPLES: 1. MMP WITH 026 HARDWARE WOULD MATE WITH AN					
SK030	SL, NSL or SLL	MMS WITH 026 HARDWARE.					
SK2	SL2, NSL2 or SL2L	2. MMS WITH SK HARDWARE WOULD MATE WITH AN MMP WITH SL OR NSL HARDWARE.					
SK2030	SL2, NSL2 or SL2L	3. MMS WITH SL2 HARDWARE WOULD MATE WITH AN MMP WITH SK2 OR SK2030 HARDWARE.					
SK2035	SL2, NSL2 or SL2L						

DIMENSIONS in inches [millimeters]

NOTE: The views below show the wiring side of a pin model connector (female is opposite). Socket hardware assembled at "A" contact end of a pin model connector.





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MOUNTING VARIATIONS in inches [millimeters] 0.093 [2.36] Dia. Typ. 0.093 [2.36] 0.047 [1.19] 0.093 [2.36] **DIP SOLDER PC BOARD** 0.047 [1.19] Dia. Typ. 0.047 [1.19] Typ. Dia. Typ. Typ. **MOUNTING PATTERNS** Typ. Male (MMP) connector 0.188 0.376 0.282 0.562 0.468 0.656 [4.78] [9.55] [7.16] shown - female is opposite. [11.89] [14.27] [16.66] Ref. Ref. Ref. Contact, contact row and 0.040 mating hole C_L to C_L 0.140 0.040 0.140 [3.56] [1.02] 0.040 [3.56] Typ. [1.02] Dimensions also applies to 0.140 [3.56] Typ. [1.02] 0.081 [2.06] 0.081 [2.06] Тур. solder cup style connectors. 0.081 [2.06] **5 CONTACTS** 7 CONTACTS 9 CONTACTS).093 լ∠.∟ <u>Dia. Typ.</u> ↑ 0.093 [2.36] 0.093 [2.36] Dia. Typ. 0.093 [2.36] ∕ Dia. Typ. 0.047 [1.19] 0.047 [1.19] 0.047 [1.19] Typ. Typ. Typ. ٨ 0.376 0.282 0.656 0.532 [9.55] [7.16] Ref. 0.625 [9.55] [16.66] [13.51] Ref. [15.88] Ref. 0.081 0.125 [3.17] 0.090 [2.29] Typ. 0.140 [3.56] [2.06] 0.081 0.124 [3.15] Typ. Typ. 0.135 [2.06] 0.162 [4.11] Тур. 0.162 [4.11] [3.43] 0.270 [6.86] Тур. 11 CONTACTS 14 CONTACTS **18 CONTACTS** 0.093 [2.36] 0.093 [2.36] Dia. Typ. 0.047 [1.19] Typ. — 0.047 [1.19] 0.047 [1.19] 0.093 [2.36] Dia. Typ. Dia. Typ. Тур. Typ. 0.846 [21.49] 0.564 1.09 [27.69] 0.752 0.814 1.0 [14.33] Ref. [19.10] [20.68] [25.40] Ref. Ref. 0.125 0.081 0.081 0.124 0.081 [3.17] Typ. [2.06] 0.124 [2.06]0.162 [4.11] [3.15] Typ. [2.06][3.15] 0.162 [4.11] 0.162 [4.11] Тур. **20 CONTACTS** 26 CONTACTS 29 CONTACTS 0.093 [2.36] Dia. Typ. 0.047 [1.19] Typ. — 0.093 [2.36] Dia. Typ. 0.047 [1.19] Typ. 0.093 [2.36] Dia. Typ. 0.047 [1.19] 0.987 [25.07] Ref. 1.28 [32.51] 1.13 [28.70] Ref. 1.03 1.41 [35.81] [19.10] [26.16] 0.140 [3.56] 0.090 0.147 [3.73] 0.090 0.140 -[3.56] Typ. [2.29] Typ. 0.135 [2.29] Typ. Typ 0.135 [2.29] Typ. [3.43] 0.135 [3.43] Typ. [3.43] 0.270 [6.86] 0.270 [6.86] 0.270 [6.86]

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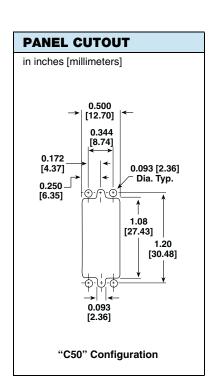
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PANEL CUTOUT in inches [millimeters]										
Le A SI	NUMBER OF CONTACTS	Α	В	С	NUMBER OF CONTACTS	Α	В	С		
0.050 [1.27] B C R Typ.	5	0.210 [5.33]	0.468 [11.89]	0.340 [8.64]	20	0.270 [6.86]	0.814 [20.68]	0.690 [17.53]		
	7	0.210 [5.33]	0.562 [14.27]	0.440 [11.18]	26	0.270 [6.86]	1.0 [25.40]	0.870 [22.10]		
	9	0.210 [5.33]	0.656 [16.66]	0.530 [13.46]	29	0.270 [6.86]	1.09 [27.69]	0.970 [24.64]		
	11	0.270 [6.86]	0.532 [13.51]	0.410 [10.41]	34	0.380 [9.65]	1.03 [26.16]	0.910 [23.11]		
→ 0.093 [2.36]	14	0.270 [6.86]	0.625 [15.88]	0.500 [12.70]	44	0.380 [9.65]	1.28 [32.51]	1.16 [29.46]		
	18	0.380 [9.65]	0.656 [16.66]	0.530 [13.46]	50	0.380 [9.65]	1.41 [35.81]	1.28 [32.51]		

DIMENSIONS in inches [millimeters] NOTE: The views below show the wiring side of a pin model connector (socket style is opposite). Socket hardware is assembled at "A" contact end of pin connector. 0.160 [4.06] 0.093 ± 0.344 0.093 [2.36] Dia. Typ. [2.36] 0.344 [8.74] 0.172 [4.37] 0.093 [2.36] R 2 Places __0.113 ▼ [2.87] 0.250 [6.35 0.893 [22.68] 0.060 [30.48] [1.52] R 0.155 [3.94] 0.080 1.43 [36.32] 0.047 [1.19] [2.03] Typ. 0.047 ⊕l([1.19] Typ. Typ. 0.155 [3.94] 0.090 0.893 Тур. 0.180 [2.29] Typ. [22.68] Ref. 1.20 [30.48] [4.57] 0.360 Тур. [9.14] Ref. 0.126 + 0.002 - 0.000-[3.20 + 0.051 - 0.000] Dia. Typ. "C50" Configuration **←**0.090 [2.29]



DIP SOLDER PC BOARD MOUNTING PATTERNS

Male (MMP) connector shown - female is opposite. Contact, contact row and mating hole C_L to C_L dimensions also applies to solder cup style connectors.



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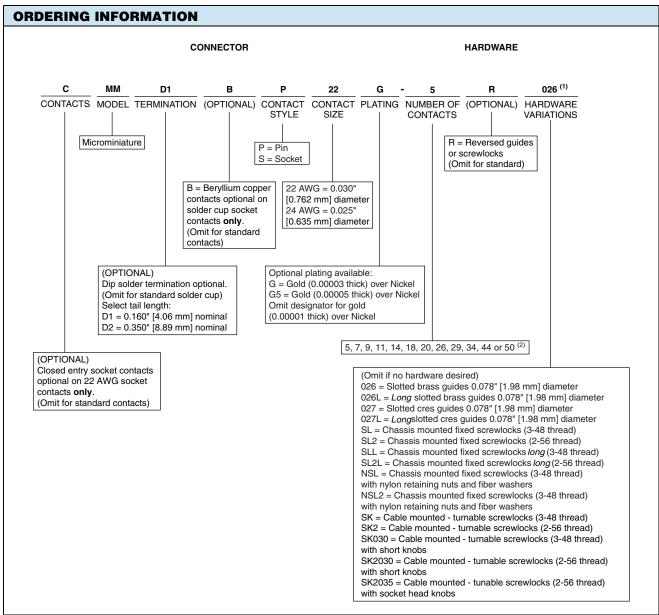
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Notes

- (1) To order complete connector with hardware supplied unassembled, add suffix "UA" on end of hardware designation.
- (2) 50 contact connectors are available in either the standard 4-row contact arrangement per MIL-C-28748 or a special 5-row contact arrangement. To order the special 5-row contact arrangement, use the designator "C50" for the number of contacts.



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