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# 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<sub>RMS</sub>

At 70 000 feet: 500 V<sub>RMS</sub>

#### **MATERIAL SPECIFICATIONS**

Contact Pin: Phosphor bronze

Contact Socket: Phosphor bronze (Beryllium copper

available on request)

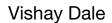
Contact Plating: Gold

Screwlocks: Stainless steel, passivated

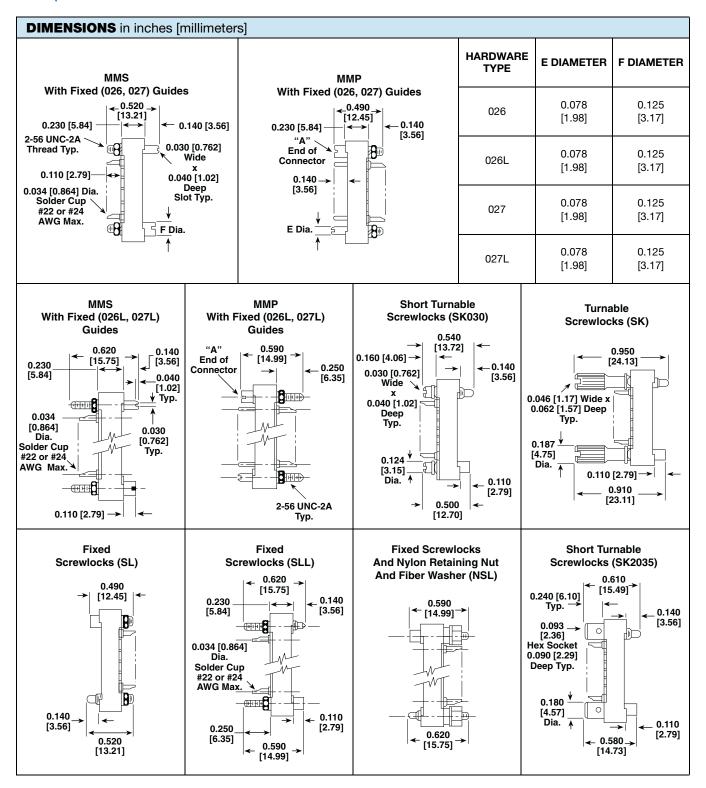
**Guides:** Brass, gold plated or stainless steel, passivated **Standard Body:** Glass-filled diallyl phthalate per MIL-M-14,

Model SDG-F, green

MMS With Solder Cup Contacts  0.110 [2.79] Typ.  0.034 [0.864] Dia. Solder Cup	MMP With Solder Cup Contacts  B  0.140 [3.56]	MMDS With Dip Solder  0.030 [0.762]	•	MMDP With Dip Solder Contacts  0.140 [3.56]		
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]		



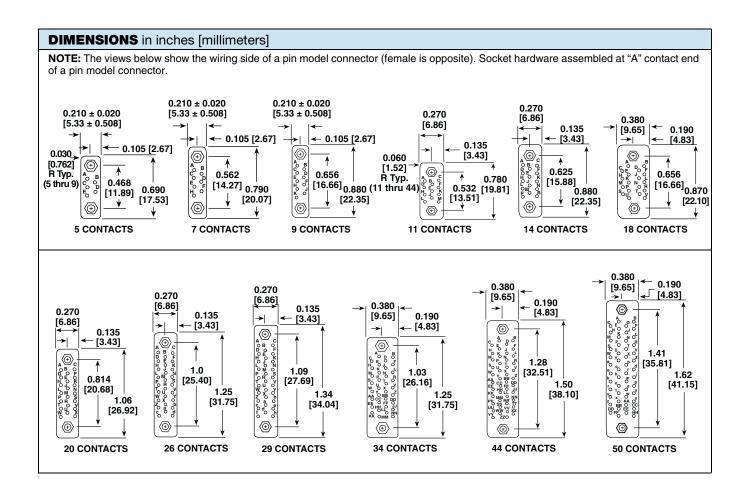


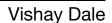




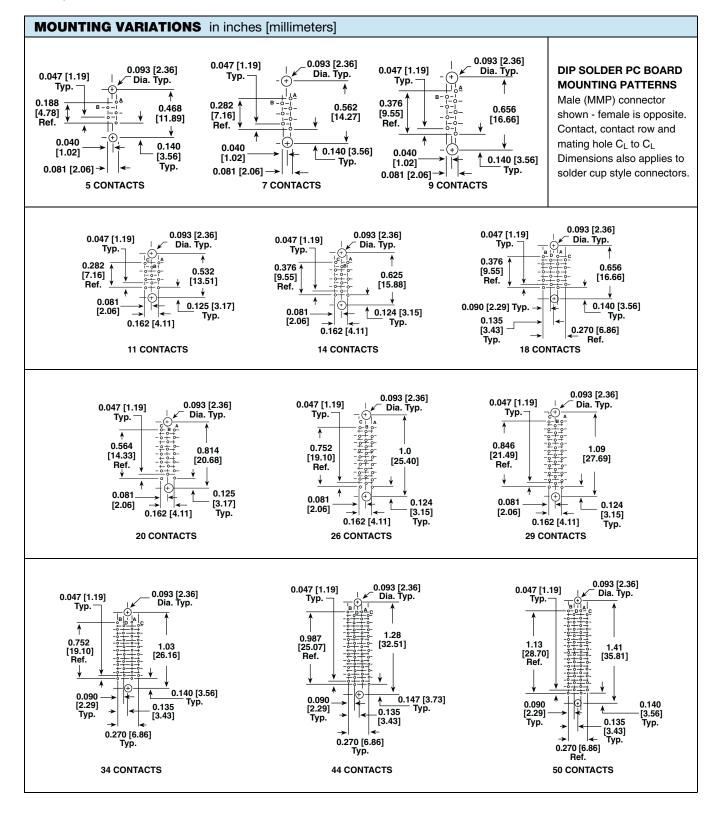
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HARDWARE MATING CHART						
HARDWARE MODEL	MATES WITH HARDWARE MODEL					
026	026, 026L	NOTE: EITHER MMP OR MMS CONNECTORS MAY BE				
027	027, 027L	ORDERED WITH ANY TYPE OF HARDWARE SHOWN.				
SK	SL, NSL or SLL	EXAMPLES:  1. MMP WITH 026 HARDWARE WOULD 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					



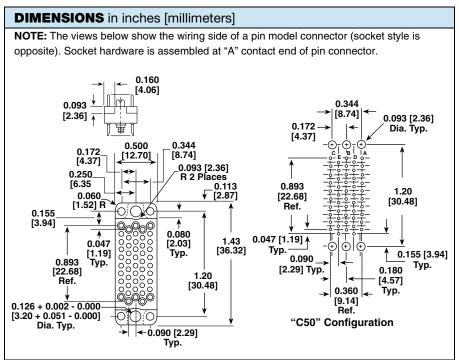


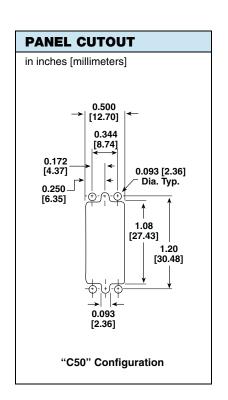






PANEL CUTOUT in inches [millimeters]										
	NUMBER OF CONTACTS	Α	В	С	NUMBER OF CONTACTS	Α	В	С		
0.050 [1.27] B C R Typ.	5	0.210 [5.33]	0.468 [11.89]	0.340 [8.64]	20	0.270 [6.86]	0.814 [20.68]	0.690 [17.53]		
	7	0.210 [5.33]	0.562 [14.27]	0.440 [11.18]	26	0.270 [6.86]	1.0 [25.40]	0.870 [22.10]		
	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]		
	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]		



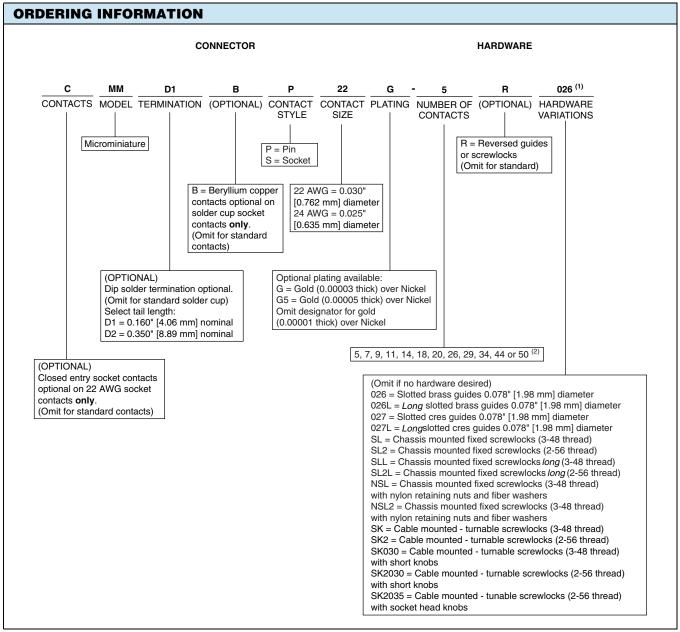


#### **DIP SOLDER PC BOARD MOUNTING PATTERNS**

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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#### 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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MMD21-0291H1 MME25-0201P1 MMB21-0201PU MMB23-0071R1 MMD25-0291S1 MMS22G5-20SL2 MMB21-0111PU MMA23-0091S1 MMA23-0341R1 MMA25-011 MMD21-0261R1 MMD23-0111G1 MMD25-0071J1 MMD25-0091H1 MMD23-0201H1 MMH23-0201H1 MMH25-0091D1 MMA25-0071K1 MMD45-0141V1 MMB23-0341J1 MMA45-0141V1 MMB25-0071D1 MMB25-0091R1 MMB25-0091D1 M28748/7-B00S1A M28748/7-C00F1A MMA23-0111R1 MMS22G5-7SK2030 MMA21-018 MMA21-026 MMD21-0111H1 MMD21-018 MMD21-026 MMP22G5-7SL2L T02 MMD1P22G5-50SL MMK25-0091HU MMA25-007RP1 MMA41-026 MMB23-0291C1 MMA25-0071N1 MMB23-026111-101 MMA23-007 MMD21-020 MMD25-0141P1 MMD25-005 MMA43-0051N1 MMA43-0091N1 MMK25-0141S1-103