



# **Rack and Panel Connectors Subminiature Rectangular**





### **ELECTRICAL SPECIFICATIONS**

Current Rating: 7.5 A Breakdown Voltage: At sea level: 2000 V<sub>RMS</sub>

At 70 000 feet [21 336 meters]: 500 V<sub>RMS</sub>

### PHYSICAL SPECIFICATIONS

Number of Contacts: 5, 7, 11, 14, 20, 26, 34, 42, 50, 75

**Contact Spacing:** 0.120" [3.05 mm]

Contact Gauge: #20 AWG

Minimum Creepage Path Between Contacts:

0.080" [2.03 mm]

Minimum Air Space Between Contacts: 0.050" [1.27 mm]

### **FEATURES**

- Lightweight
- Polarized by guides or screwlocks
- Screwlocks lock connectors together to withstand vibration and accidental disconnect
- · Overall height kept to a minimum
- Floating contacts aid in alignment and in withstanding vibration
- Contacts, precision machined and individually gauged, provide high reliability
- Insertion and withdrawal forces kept low without increasing contact resistance
- Contact plating provides protection against corrosion, assures low contact resistance and ease of soldering

### **APPLICATIONS**

For use wherever space is at a premium and a high quality connector is required in avionics, automation, communications, controls, instrumentation, missiles, computers and guidance systems.

### **MATERIAL SPECIFICATIONS**

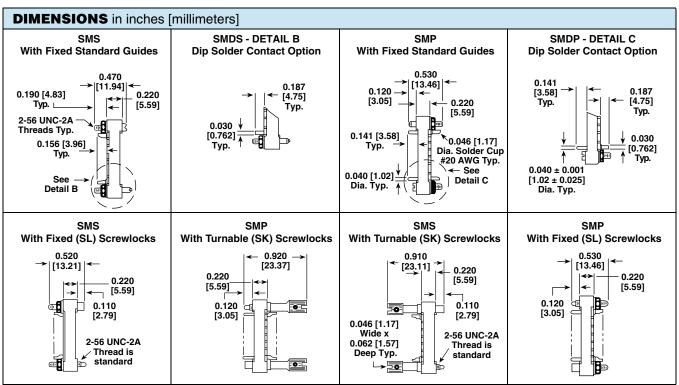
Contact Pin: Brass, gold plated

Contact Socket: Phosphor bronze, gold plated

(Beryllium copper available on request) **Guides:** Stainless steel, passivated **Screwlocks:** Stainless steel, passivated

Standard Body: Glass-filled diallyl phthalate per MIL-M-14,

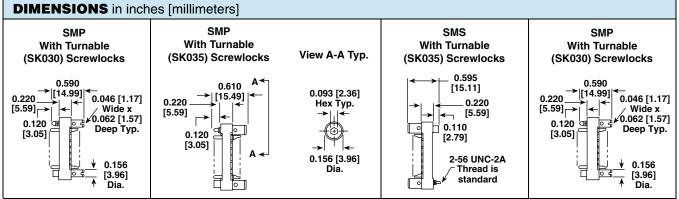
Model GDI-30F, green

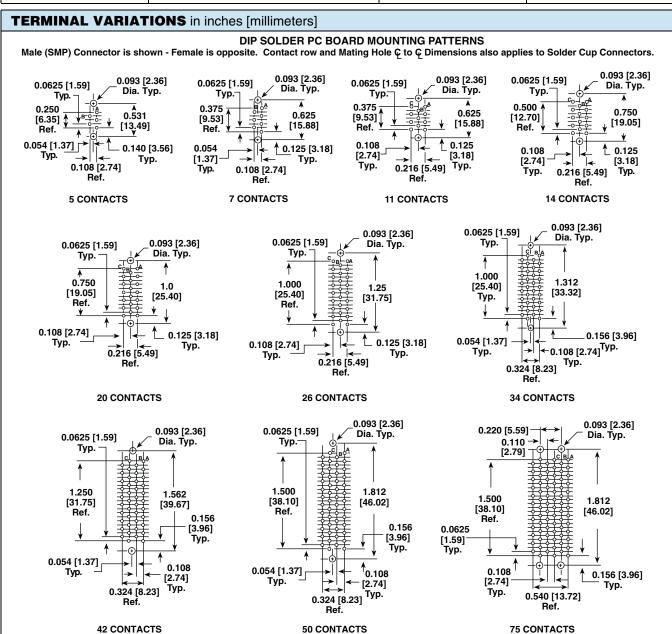


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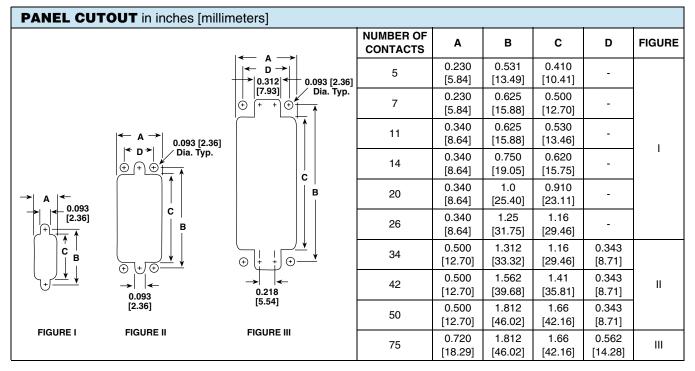


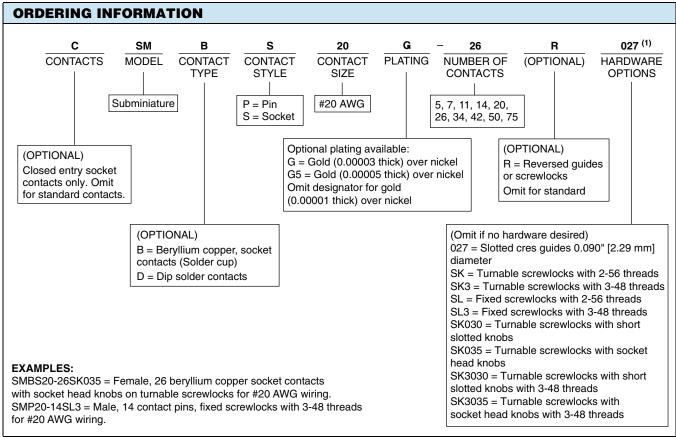
#### **DIMENSIONS** in inches [millimeters] NOTE: The views below show the wiring side of a pin model connector (female is opposite). Socket hardware is assembled at "A" contact end of a pin model connector. 0.230 0.340 [8.64] 0.170 0.230 0.340 [8.64] [5.84] 0.170 [4.32][5.84] [8.64] 0.170 [4.32]0.090 [2.29] [4.32]**(** O<sub>A</sub> O<sub>B</sub> O<sub>F</sub> R Typ. $\odot$ **⊕** oc OD 0E 0 P В O EO JO MO OH 0, 0.750 70 FO TO 0.780 BO DO 1 [25.40] **4**0 00 ш0 0.625 0.625 OL ON OS [19.05] OF OF OF е О К О 0.531 [19.81] [15.88] 0.870 [15.88] <sub>0.870</sub> 0 P O D O O O % <sup>M</sup>° [13.49] F P [22.10] [22.10] [25.40] [31.75] $\widehat{\oplus}$ Ѿ **5 CONTACTS** 7 CONTACTS 11 CONTACTS 14 CONTACTS 20 CONTACTS 0.500 0.500 [12.70] [12.70] 0.340 0.340 0.340 [8.64] 0.250 [8.64] 0.170 [8.64] 0.250 [6.35] [4.32] [6.35] $\bigoplus \bigoplus \bigoplus$ (E) $\oplus$ $\oplus$ $\oplus$ ႝၹ <sup>d</sup>o□ OB OF OD OE OK الاه <sub>وه</sub> الا 1.25 κъς os<sup>oN</sup> [31.75] Po 10 YO CO OL OM OS 1.312 Ø X 1.562 GP OR OV [33.32] [39.68] ام م م 1.50 HO NO SS Oz Ob 1.56 [38.10] [39.62] [46.23] gp-du ss T **①** $\oplus$ $\oplus$ $\oplus$ $\oplus$ **26 CONTACTS** 34 CONTACTS **42 CONTACTS** 0.720 0.156 [3.96] [18.29] **Female Screwlock Socket** 0.500 0.560 or Guide Socket [12.70] |<sup>\*</sup>[14.22] |<del>\*</del>|+\*| 0.340 0.090 0.220 [8.64] 0.250 [5.59] [2.29] [6.35]Тур. \_ ⊕<u>`</u>⊕ <u>⊕</u>¦@¦<u>⊕</u> co EC BO KO MO NO NO RO TO VO **Female Guide** TYPICAL END VIEW Socket 1.812 34 THRU 50 CONTACTS 1.812 [46.02] [46.02] 2.06 [52.32] [52.32] Male Screwlock Pin ♦ 0.090 or Guide Pin [2.29] မွ မွ aO<sub>bO</sub>cO<sub>dO</sub> Typ. **⊕**.€ $\oplus | \oplus | \oplus$ 0.156 [3.96] Typ. Male Guide Pin **TYPICAL END VIEW** 75 CONTACTS **50 CONTACTS 75 CONTACTS**

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### Note

(1) To order complete connector with hardware supplied unassembled, add suffix "UA" on end of hardware designation.

Document Number: 36010 Revision: 05-May-09



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