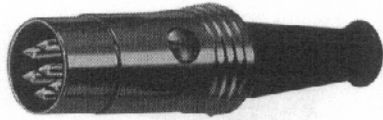


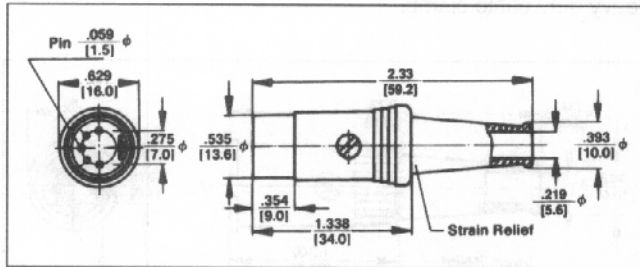
DIN PLUGS AND RECEPTACLES

STRAIGHT CORD PLUG with Extended Barrel



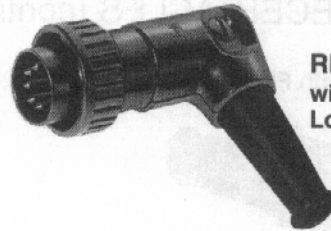
TYPE 12BL6M – TYPICAL

Male plug with ground key-rib. Nickel-plated diecast handle. Contact friction coupling. Flexible black strain relief. Heavy duty cable clamp.



ORDERING INFORMATION

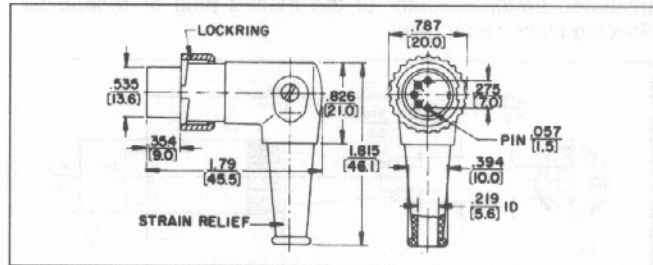
Part Number	Description	Pin Arrangement
03BL2M	2 pins with insulated switch actuator	1
05BL3M	3 pins at 180°	2
05BL5M	5 pins at 180°	5
09BL4M	4 pins at 210°	3
12BL5M	5 pins at 240°	4
12BL6M	6 pins at 240°	6
15BL7M	7 pins at 270°	7
15BL8M	8 pins at 270°	8



RIGHT-ANGLE CORD PLUG with 8 Position Barrel and 30° Lockring

TYPE 05YL5M – TYPICAL

Right-angle chassis hugging, male plug with flexible strain relief. Unique 8-position barrel gives you a choice of any one of eight different cable entry angles. ground key rib 30° turn locking securely fastens two halves of connector.



ORDERING INFORMATION

Part Number	Description	Pin Arrangement
05YL3M	3 pins at 180°	2
05YL5M	5 pins at 180°	5
09YL4M	4 pins at 210°	3
12YL5M	5 pins at 240°	4

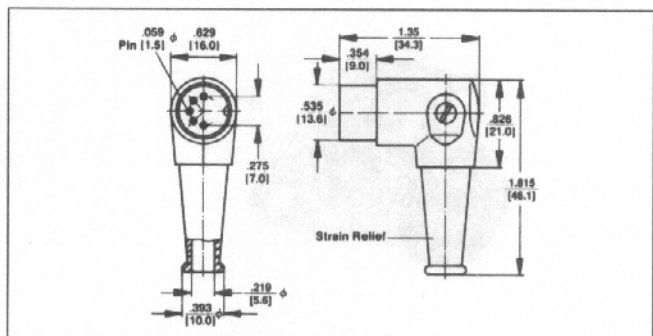
RIGHT-ANGLE CORD PLUG with 8 Position Barrel



05DL5M shown

TYPE 05DL5M – TYPICAL

Right-angle chassis hugging, male plug with flexible black rubber strain relief. Unique 8-position barrel offers a choice of eight different cable entry angles.



ORDERING INFORMATION

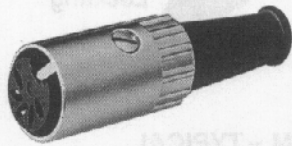
Part Number	Description	Pin Arrangement
05DL3M	3 pins at 180°	2
05DL5M	5 pins at 180°	5
09DL4M	4 pins at 210°	3
12DL5M	5 pins at 240°	4
12DL6M	6 pins at 240°	6
15DL7M	7 pins at 270°	7

◊ Available on special order only; contact Switchcraft for price and delivery.

DIMENSIONS ARE FOR REFERENCE ONLY  $\frac{\text{Inch}}{\text{(mm)}}$

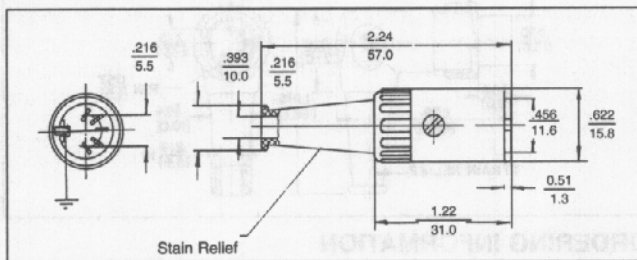
DIN PLUGS AND RECEPTACLES (continued)

STRAIGHT CORD PLUG with Flush Socket Insert



TYPE 06AL5F – TYPICAL

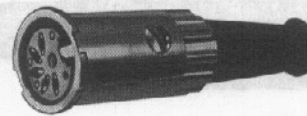
Female plug with ground contact. Diecast metal shell, nickel-plated. Two contact plug, Part number 04AL2F includes a break circuit switch (1-B) which is opened by engaging the insulated switch actuator of the mating plug or receptacle. Flexible black strain relief.



ORDERING INFORMATION

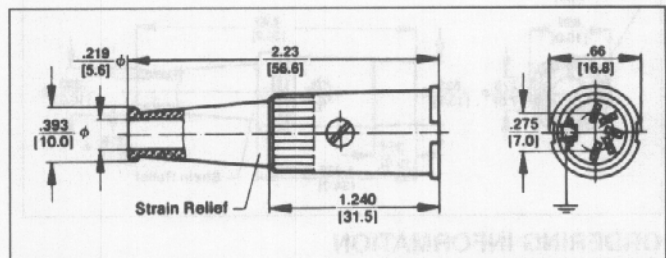
Part Number	Description	Contact Arrangement
06AL5F	5 contacts at 180°	F
◊13AL5F	5 contacts at 240°	E
◊13AL6F	6 contacts at 240°	G
◊15AL7F	7 contacts at 270°	H
15AL8F	8 contacts at 270°	N

STRAIGHT CORD PLUG with Lock Flange



TYPE 06EL5F – TYPICAL

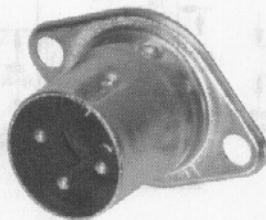
Female plug with ground contact. Lock flange designed to accept 30° locking. Insert screw firmly holds insert assembly in shell. Flexible black strain relief with 7/32" diameter cable entry. Heavy duty cable clamp.



ORDERING INFORMATION

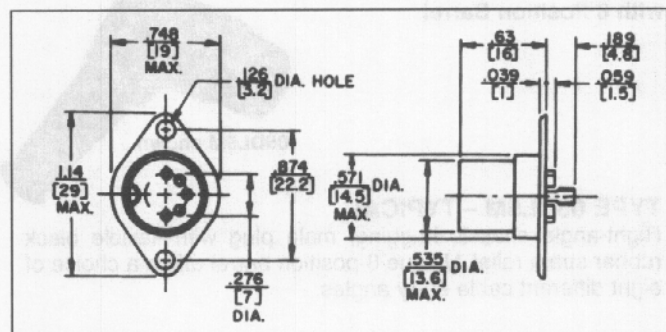
Part Number	Description	Contact Arrangement
◊06EL5F	5 contacts at 180°	F
13EL5F	5 contacts at 240°	E
◊15EL8F	8 contacts at 270°	N

RECEPTACLE with Extended Shell



TYPE 57KD3M – TYPICAL

Male receptacle, 3 pins, with ground key-rib. Diecast extended shell and flange for chassis or panel mounting. Turret terminals.



ORDERING INFORMATION

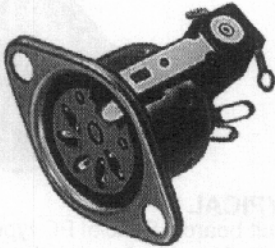
Part Number	Description	Pin Arrangement
57KD3M	3 pins at 180°	2

◊ Available on special order only; contact Switchcraft for price and delivery.

DIMENSIONS ARE FOR REFERENCE ONLY Inch  
(mm)

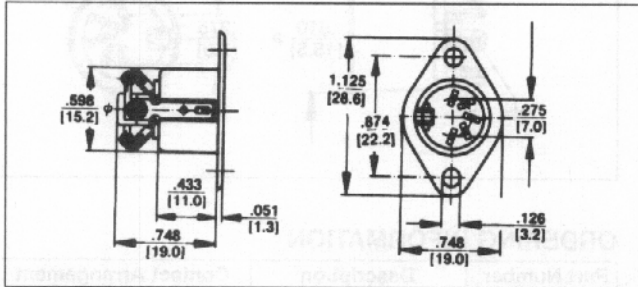
DIN RECEPTACLES (continued)

RECEPTACLE with Closed Circuit Switch



TYPE 59GB3F – TYPICAL

Unique 3 and 5 contact receptacles include a 1-B (closed circuit) switch which is mounted to drawn metal shell. Switch is actuated by the shell of the mating plug. Receptacles also provide complete shielding through the ground contact. Flared solder terminals.

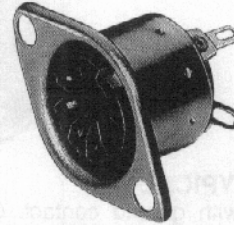


ORDERING INFORMATION

Part Number	Description	Contact Arrangement
◊59GB3F	3 contacts at 180° plus closed-circuit switch (Schematic #5)	B

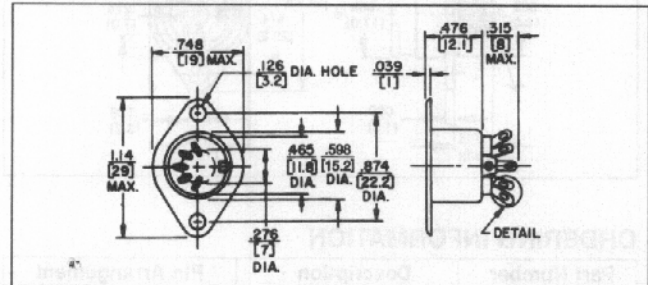
◊ Available on special order only; contact Switchcraft for price and delivery.

RECEPTACLE for Chassis or Panel Mounting  
For shielded and extended barrel plugs



TYPE 57GB5F – TYPICAL – FLARED SOLDER TERMINALS

Drawn metal recessed shell with mounting flange and ground contact. Available flared solder terminals. Part Number 58GB3F features two extra blanks in insert for proper mating (5 pins at 180°) plug where applications may require greater connector flexibility. Flared solder terminals standard.



ORDERING INFORMATION

Part Number	Descriptions	Contact Arrangement
◊57GB3F	3 contacts at 180°	B
57GB5F	5 contacts at 180°	F
60GB4F	4 contacts at 210°	D
61GB5F	5 contacts at 240°	E
61GB6F	6 contacts at 240°	G
62GB7F	7 contacts at 270°	H
62GB8F	8 contacts at 270°	N

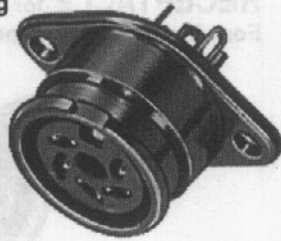
◊ Available on special order only; contact Switchcraft for price and delivery.

DIMENSIONS ARE FOR REFERENCE ONLY  $\frac{\text{Inch}}{\text{(mm)}}$

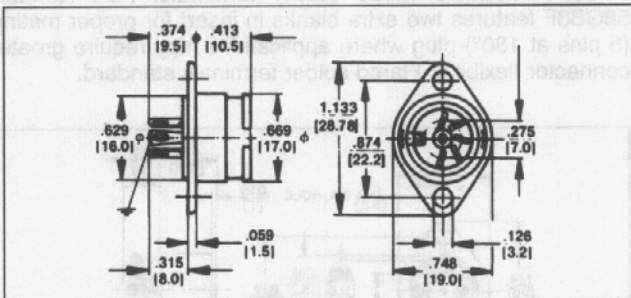
CONNECTORS & RECEPTACLES  
Switchcraft

## DIN RECEPTACLES (continued)

**RECEPTACLE for Lockring Plug**  
Flared solder terminals on  
Part Number 57HB5F

**TYPE 61HA5F – TYPICAL**

Female receptacle with ground contact. Chassis or panel mount. Diecast bayonet extension shell with mounting flange. Mates with all locking plugs, such as Part Number 12CL5M. Part Number 55HA2F includes closed-circuit switch (1-B). All receptacles have straight solder terminals, except as noted.

**ORDERING INFORMATION**

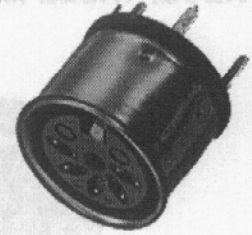
Part Number	Description	Pin Arrangement
◊55HA2F	2 contacts with closed-circuit switch (Schematic #4)	A
57HB3F*	3 contacts at 180°	B
57HB5F*	5 contacts at 180°	F
60HA4F	4 contacts at 210°	D
61HA5F	5 contacts at 240°	E
62HB7F*	7 contacts at 270°	H
62HB8F*	8 contacts at 270°	N

\*Flared solder terminals

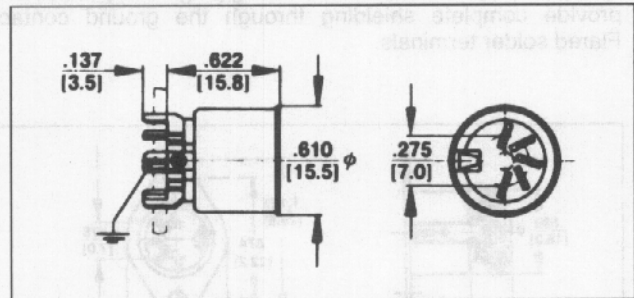
\*A" in part number indicates straight terminal. (solder lug).

◊ Available on special order only; contact Switchcraft for price and delivery.

**RECEPTACLE**  
for Printed Circuit Board  
Mounting

**TYPE 57NC5F – TYPICAL**

Mounts to printed circuit boards. Special PC type terminals "snap-in" precut boards. See drawing. Tubular metal shell with ground contact. Part Number 58NC3F mates with either 3 pin or 5 pin (at 180°) plugs because of its 2 extra blanks in the contact insert.

**ORDERING INFORMATION**

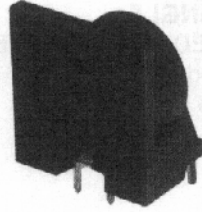
Part Number	Description	Contact Arrangement
57NC5F	5 contacts at 180°	F
◊58NC3F	3 contacts at 180° 2 extra blanks	C
◊60NC4F	4 contacts at 210°	D
61NC5F	5 contacts at 240°	E
◊62NC7F	7 contacts at 270°	H
62NC8F	8 contacts at 270°	N

"C" in part number indicates PC terminals.

◊ Available on special order only; contact Switchcraft for price and delivery.

DIMENSIONS ARE FOR REFERENCE ONLY  $\frac{\text{Inch}}{\text{(mm)}}$

**RIGHT-ANGLE RECEPTACLE for Printed Circuit Board Mounting**



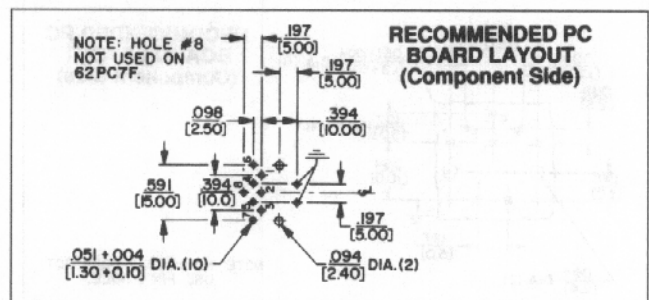
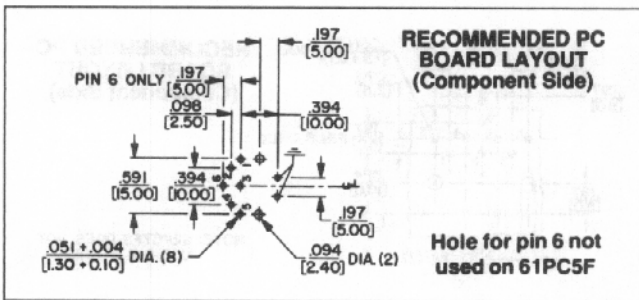
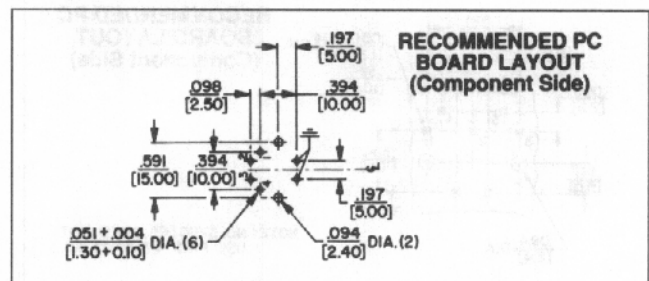
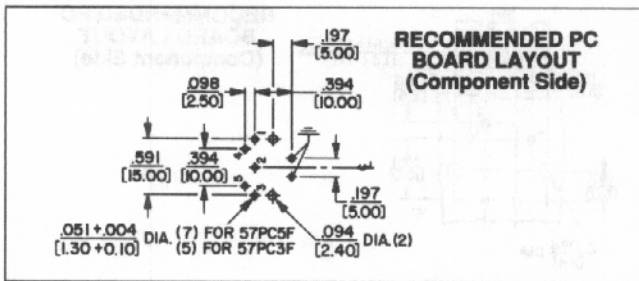
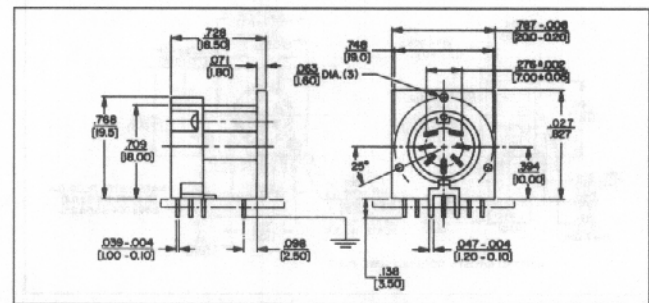
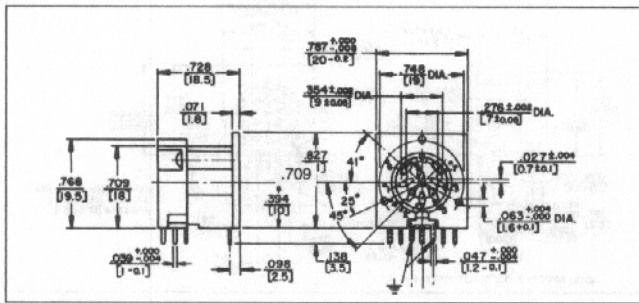
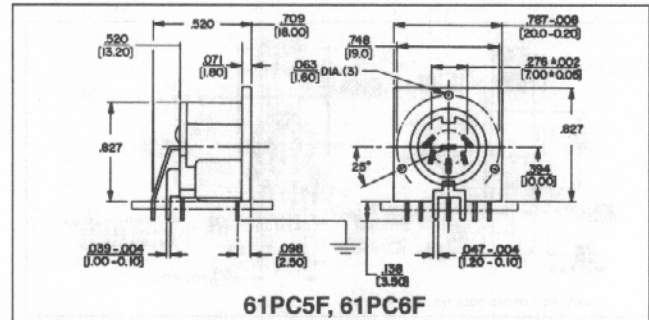
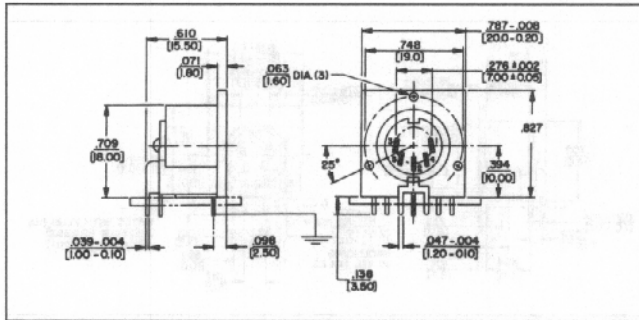
**TYPE 57PC5F-TYPICAL**

Mounts to PC boards. Plugs connect at right-angle to mounting surface. Part Number 57PC3F mates with either 3 or 5 pin (at 180°) plugs because of two extra blanks in contact insert. ground contact provides complete shielding through receptacles.

**ORDERING INFORMATION**

Part Number	Description	Contact Arrangement
◊57PC3F	3 contacts at 180°	B
57PC5F	5 contacts at 180°	F
◊60PC4F	4 contacts at 210°	D
61PC5F	5 contacts at 240°	E
61PC6F	6 contacts at 240°	G
◊62PC7F	7 contacts at 270°	H
62PC8F	8 contacts at 270°	N

◊ Available on special order only; contact Switchcraft for price and delivery.

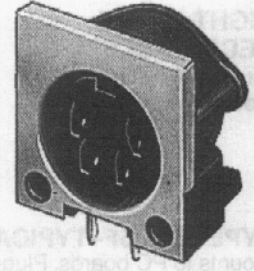


DIMENSIONS ARE FOR REFERENCE ONLY  $\frac{\text{Inch}}{\text{mm}}$

Part Number	Description	Contact Arrangement
◊57PC3FS	3 contacts at 180°	B
57PC5FS	5 contacts at 180°	F
◊60PC4FS	4 contacts at 210°	D
61PC5FS	5 contacts at 240°	E
61PC6FS	6 contacts at 240°	G
62PC7FS	7 contacts at 270°	H
62PC8FS	8 contacts at 270°	N

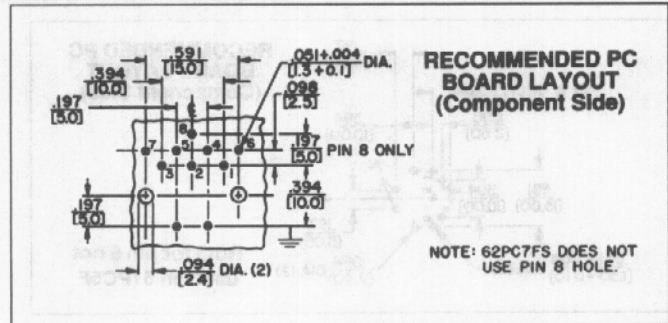
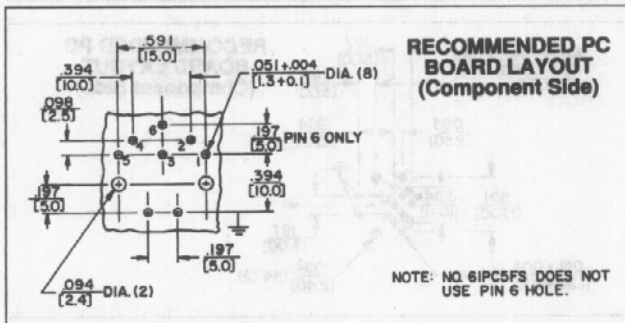
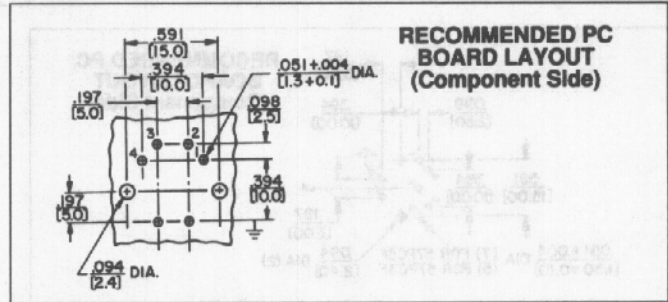
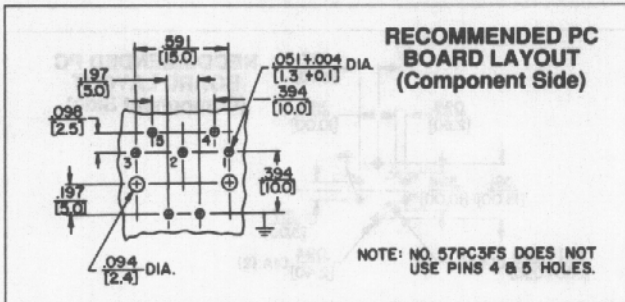
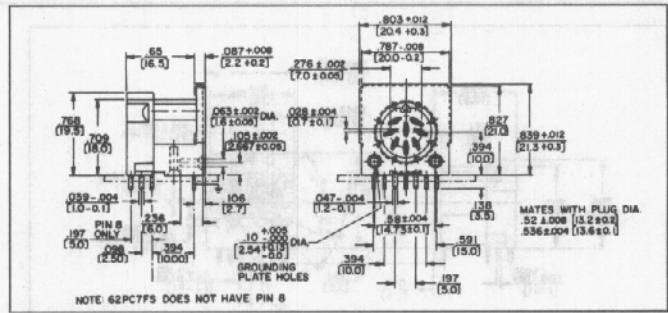
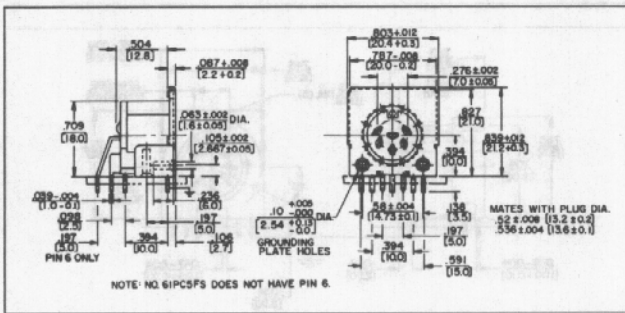
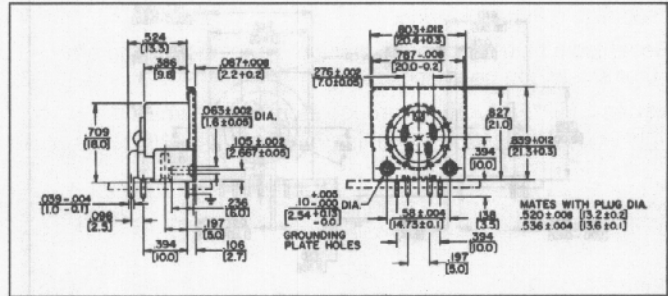
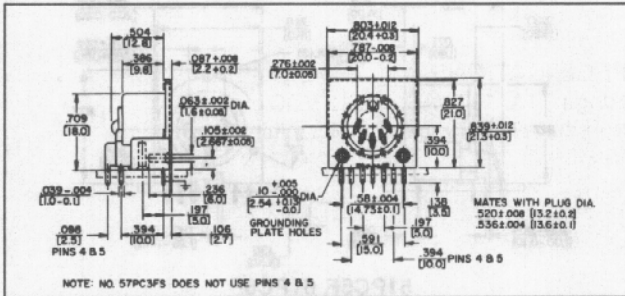
**SPECIFYING NOTE:** Another series of receptacles with a trimmed metal flange .052" (1.32 mm) below housing top is available. Replace suffix "S" with "T" in part numbers above to specify these receptacles or contact Switchcraft.  
Mounting: #2 or #3 self-tapping screw.  
◊ Available on special order only; contact Switchcraft for price and delivery.

**RIGHT-ANGLE SHIELDED RECEPTACLE**  
for printed circuit board mounting



**TYPE 60PC4FS-TYPICAL**

Similar to 57PC5F – Typical, except flange surrounding face of insert is metal to provide through-grounding between plug and receptacle and to potential panel/chassis for common grounding.



DIMENSIONS ARE FOR REFERENCE ONLY  $\frac{\text{Inch}}{\text{mm}}$

DIN RECEPTACLES (continued)

MINI-DIN RIGHT-ANGLE RECEPTACLES

Miniature DIN right-angle connectors are designed for personal computer, video and data communications, medical and instrumentation equipment and systems.

RIGHT-ANGLE, PC MOUNT RECEPTACLES

Available with 3 through 8 contacts, female only, receptacles also have a standard (and separate) ground contact system. Ground terminal can be straight or snap-in type. Snap-in terminals are bifurcated to assure tight hold down on PC board before, during and after soldering. Solder wicking around the terminal strengthens the connection. Additionally, PC terminals are staggered to assure more "hold down" capability during soldering.

Receptacle/plug retention is "friction" type, and a separate outer shield can be specified.

**Series SMD\*FRAX10:** 3 through 8 contacts, female, right-angle PC mount, straight ground terminal, and no outer shield.

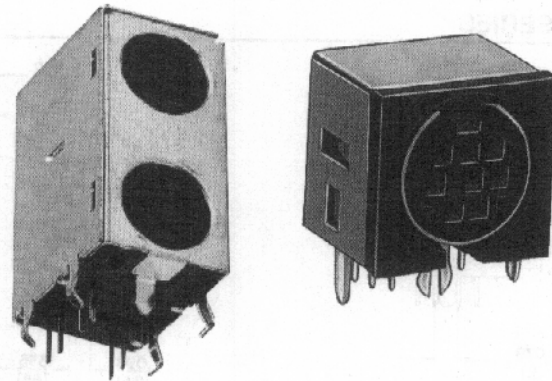
**Series SMD\*FRAX20:** Same as SMD\*FRAX10, except with bifurcated snap-in ground terminal.

**Series SMD\*FRAX11:** 3 through 8 contacts, female, right-angle PC mount, straight ground terminal, and outer shield.

**Series SMD\*FRAX21:** Same as SMD\*FRAX11, except with snap-in ground terminal.

**Series DMD\*FRAX111:** Dual stacked miniature DIN connectors, available in 4, 5, 6, and 8 contacts. Shielded and non-shielded versions available.

**Dimensions:** .552" (14 mm) wide x .502" (12.8 mm maximum depth x .642" (16.3 mm) height, including terminals.



SPECIFICATIONS

**Ratings:** 1A, 100 VAC; 2A, 12 VDC.

**Insulation Resistance:** 50 MΩ minimum

**Dielectric Strength:** 250 VDC for 1 minute.

**Contact Resistance:** 30 mΩ maximum

**Insertion/Withdrawal Force:** 0.8 to 5 kilograms

**Withdrawal Force:** 0.8 to 4 kilograms

**Contacts/Terminals:** Copper alloy, silver or gold-plated

**Ground Terminal:** Copper alloy, nickel-plated.

**External Shield:** Copper alloy, solder-coated.

**Body:** Black molded thermoplastic, UL 94V-0.

MINI-DIN RIGHT-ANGLE RECEPTACLES PART NUMBER SCHEME

Series	Contacts	Style	Shield/Ground	Optional Mounting Screw Hole
SMD-Single	Insert#:	FRA	110: Unshielded, no snap-in ground	A: Adds screw hole
DMD-Dual	3-8		111: Shielded, no snap-in ground	Blank: None
			120: Unshielded, snap-in ground	
			121: Shielded, snap-in ground	

Note: Dual available in 4,5,6, and 8 only

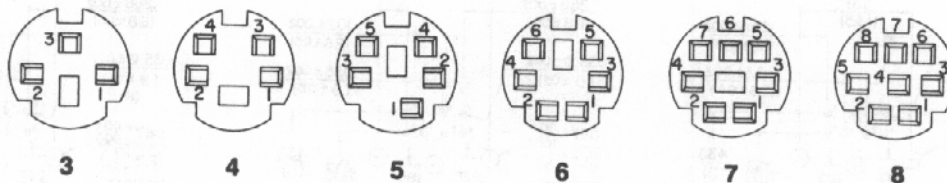
Note: Snap-in ground available on single only

Note: Optional mounting screw hole available on dual only

Note: Special order only, contact factory for details

CONTACT ARRANGEMENTS

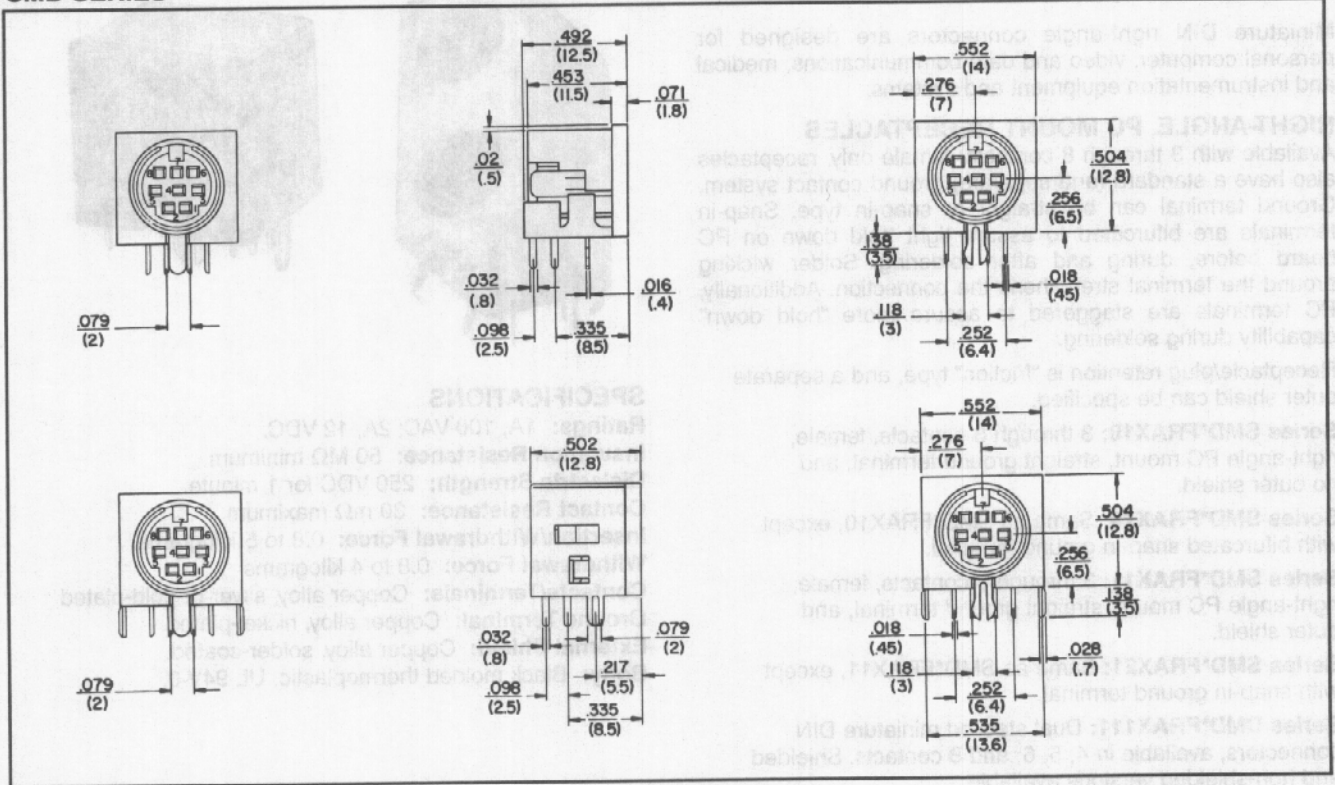
(viewed from contact side)



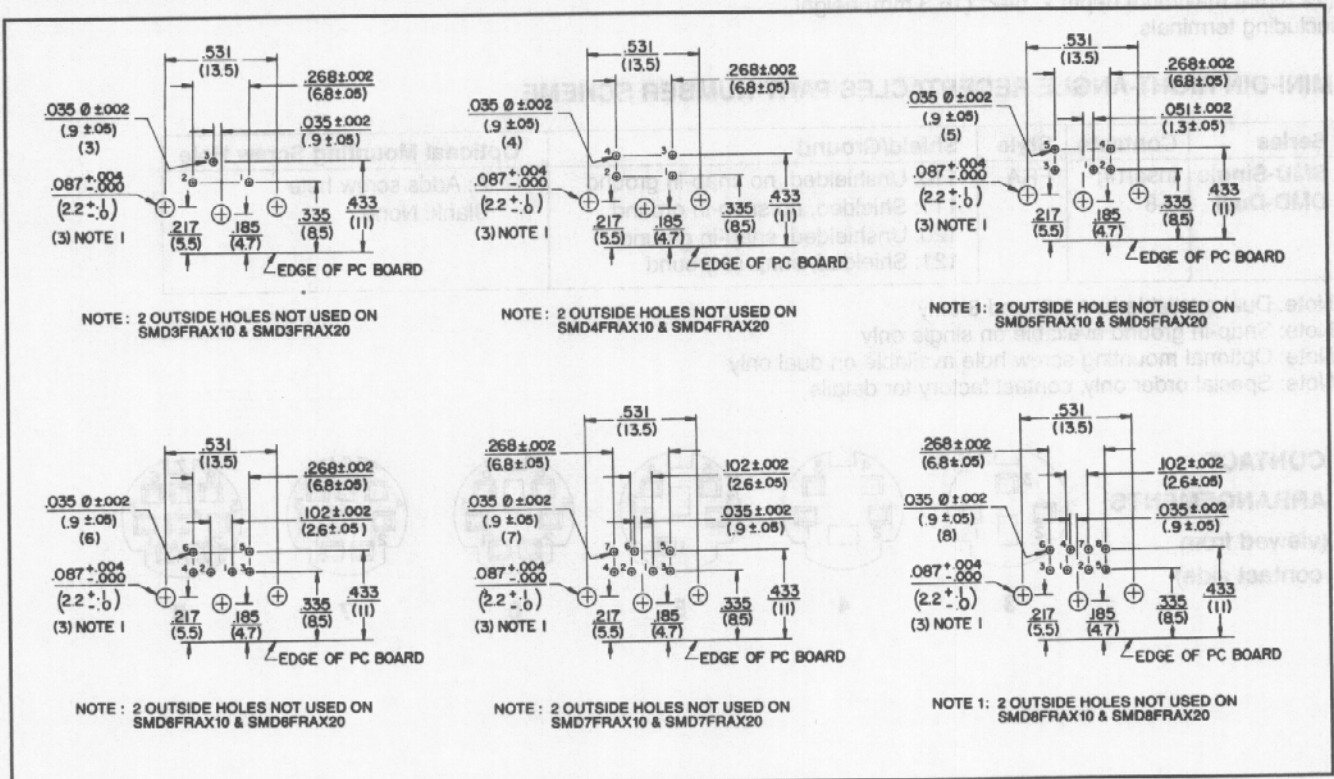
DIMENSIONS ARE FOR REFERENCE ONLY  $\frac{\text{Inch}}{\text{(mm)}}$

DIN RECEPTACLES (continued)

SMD SERIES



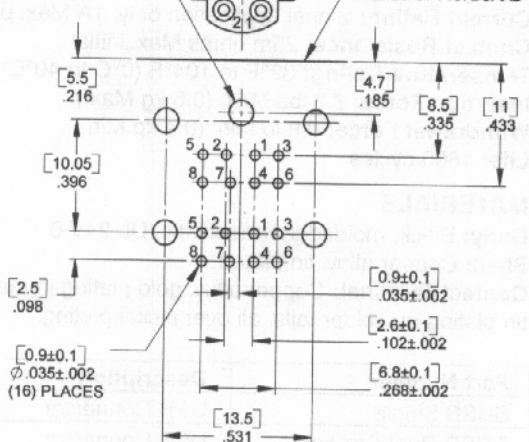
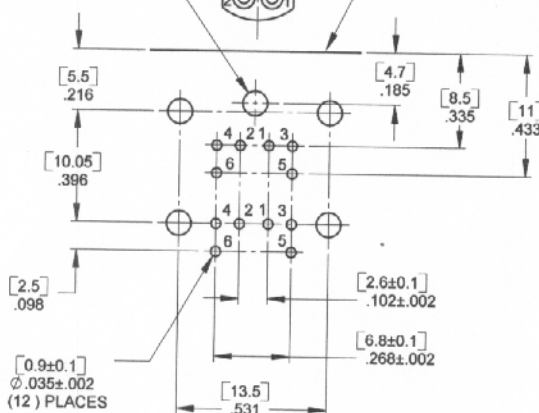
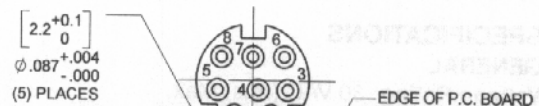
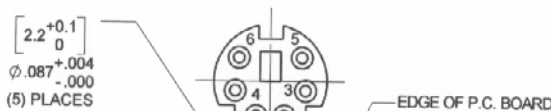
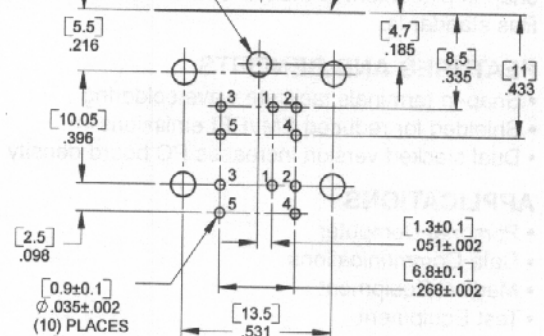
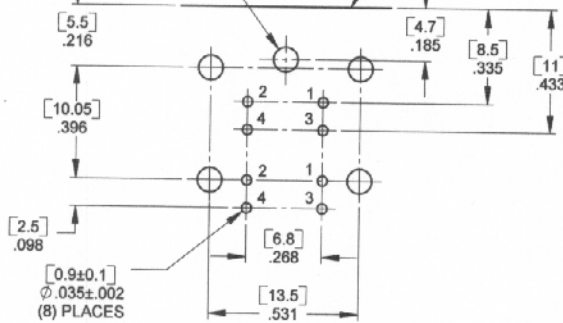
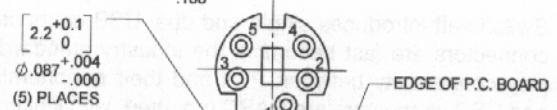
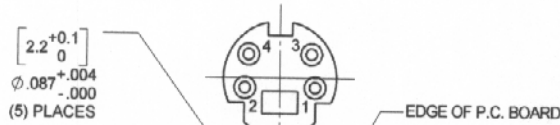
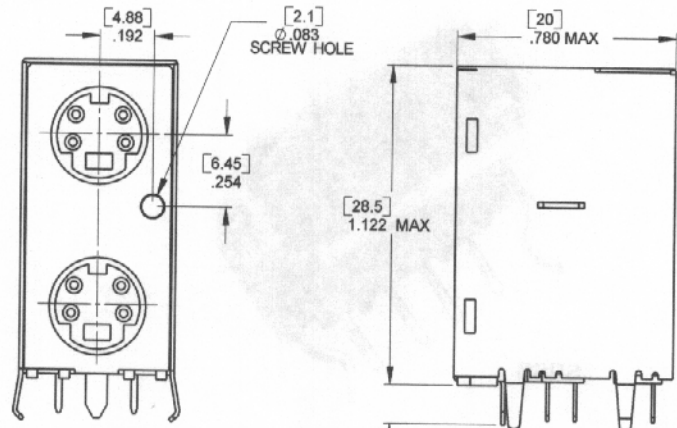
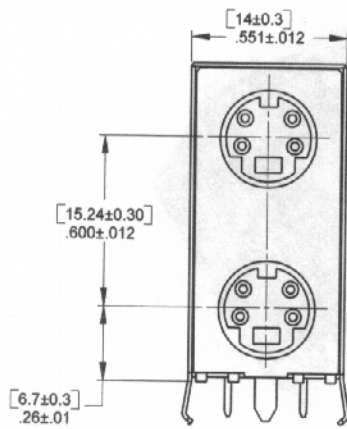
RECOMMENDED PC BOARD LAYOUTS (Viewed from component side)



DIMENSIONS ARE FOR REFERENCE ONLY Inch  
(mm)



DIN RECEPTACLES (continued)  
DMD SERIES



DIMENSIONS ARE FOR REFERENCE ONLY Inch  
(mm)