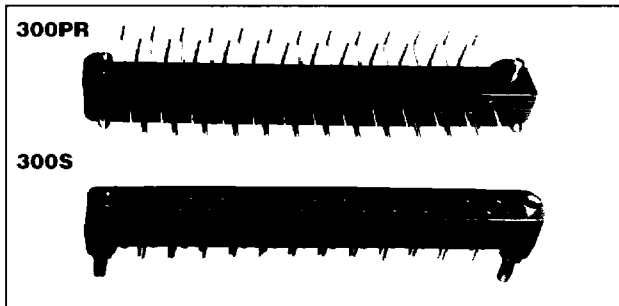


MODEL 300

Printed Circuit Board Connectors

Dip Solder



FEATURES

- Right angle or straight through dip solder terminals
- Threaded mounting studs
- Male contacts molded in
- Mating connector has solder cup or dip solder terminals
- Permanent mounting provides greater reliability
- Female contacts float to aid in alignment and resist vibration
- Polarization provided by contact arrangement and guide pin location

APPLICATIONS

Where permanent mounting of male connector to printed circuit board is required with mating female connector available.

PHYSICAL SPECIFICATIONS

Number of Contacts: 7, 15, 19 and 25.

Contact Spacing: .250" [6.35mm] staggered rows provide a .125" [3.18mm] grid.

Contact Gauge: #20 AWG.

Minimum Creepage Path Between Contacts: .160" [4.06mm].

Minimum Air Space Between Contacts: .110" [2.79mm].

ELECTRICAL SPECIFICATIONS

Current Rating: 7.5 amps.

Breakdown Voltage: At sea level: 3600 V RMS.
At 70,000 feet: 975 V RMS.

MATERIAL SPECIFICATIONS

Contact Pin: Phosphor bronze.

Contact Socket: Phosphor bronze.

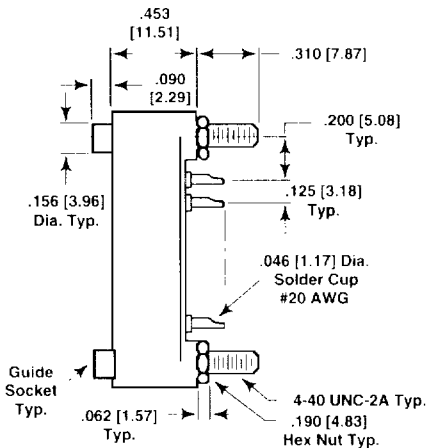
Contact Plating: Gold plated.

Guide Pins: Stainless steel, passivated.

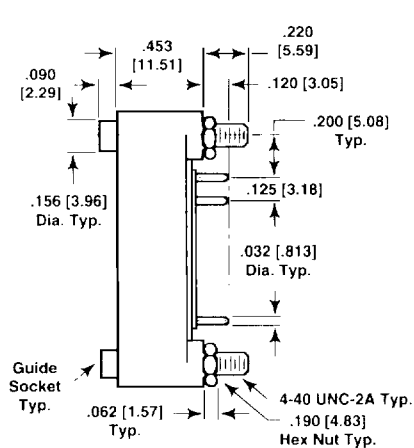
Body: (Standard) Glass-filled diallyl phthalate per MIL-M-14, Type GDI-30F, green. Other body material available.

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]

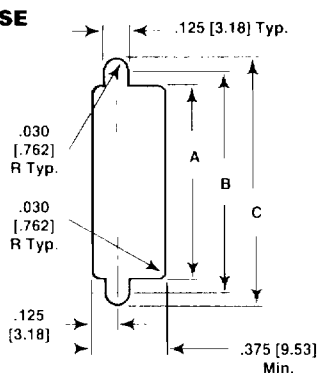
300S
Typical
Side
View



300SE
Typical
Side
View



300S and 300SE
Panel
Cutout



# OF CONTACT POSITIONS	A	B	C
7	1.0 [25.40]	1.15 [29.21]	1.28 [32.51]
15	2.0 [50.80]	2.15 [54.61]	2.28 [57.91]
19	2.50 [63.50]	2.65 [67.31]	2.78 [70.61]
25	3.25 [82.55]	3.40 [86.36]	3.53 [89.66]

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]

300S and 300SE Contacts

The following table summarizes the dimensions for the 300S and 300SE contacts shown in the technical drawings.

Configuration	Top Contact Spacing (in)	Top Contact Spacing (mm)	Bottom Contact Spacing (in)	Bottom Contact Spacing (mm)	Overall Height (in)	Overall Height (mm)	Overall Width (in)	Overall Width (mm)
7 Contacts	.125	[3.18]	.117	[2.97]	1.45	[36.83]	.360	[9.14]
15 Contacts	.125	[3.18]	.117	[2.97]	2.45	[62.23]	.360	[9.14]
19 Contacts	.125	[3.18]	.117	[2.97]	2.95	[74.93]	.360	[9.14]
25 Contacts	.125	[3.18]	.117	[2.97]	3.70	[93.98]	.360	[9.14]

Technical drawing of a Hex Nut Typ. showing dimensions in inches and millimeters. The drawing includes the following dimensions:

- Top width: .190 [4.83]
- Top width: .453 [11.51]
- Top width: .220 [5.59]
- Top width: .120 [3.05]
- Top width: .230 [5.84]
- Top width: .200 [5.08] Typ.
- Top width: .125 [3.18] Typ.
- Top width: .032 [8.13] Dia. Typ.
- Top width: .093 [2.36] Dia. Typ.
- Top width: .045 [1.14] Typ.
- Top width: .190 [4.83]
- Top width: .040 [1.02] Dia. Typ.
- Top width: .4-40 UNC-2A Typ.
- Bottom width: .045 [1.14] Typ.
- Bottom width: .190 [4.83]
- Bottom width: .040 [1.02] Dia. Typ.
- Bottom width: .093 [2.36] Dia. Typ.
- Bottom width: .032 [8.13] Dia. Typ.
- Bottom width: .125 [3.18] Typ.
- Bottom width: .200 [5.08] Typ.
- Bottom width: .120 [3.05]
- Bottom width: .220 [5.59]
- Bottom width: .453 [11.51]
- Bottom width: .190 [4.83]

15 Contacts

19 Contacts

25 Contacts

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]

Figure 1 is a mechanical drawing of the front view of the 16-pin connector. The drawing shows a central rectangular body with two rows of pins. Dimensions are given in inches and millimeters. Key dimensions include: overall width .453 [11.51], pin pitch .220 [5.59] and .300 [7.62], pin diameter .040 [1.02] Dia. Typ., pin spacing .125 [3.18] Typ., pin length .200 [5.08], pin thickness .032 [.813] Dia. Typ., and pin offset .093 [2.36] Dia. Typ. Labels include 'Contact Pin' and 'Guide Pin'.

300PR
Contacts

7 Contacts

4-40 UNC-2A Typ.

15 Contacts

19 Contacts

25 Contacts

"W" indicates no hardware. Available as an option only on S, PE and SE models.