

INCH-POUND

MIL-DTL-55302/67D
24 March 2004
SUPERSEDING
MIL-C-55302/67C
17 October 1986

DETAIL SPECIFICATION SHEET

CONNECTORS, PRINTED CIRCUIT SUBASSEMBLY AND ACCESSORIES:
PIN, RIGHT ANGLE PLUG, ELECTRICAL, POLARIZED FOR
PRINTED WIRING BOARDS (.090 SPACING)

MIL-DTL-55302/67D is inactive for new design after 1 October 1986.

This specification is approved for used by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-55302.

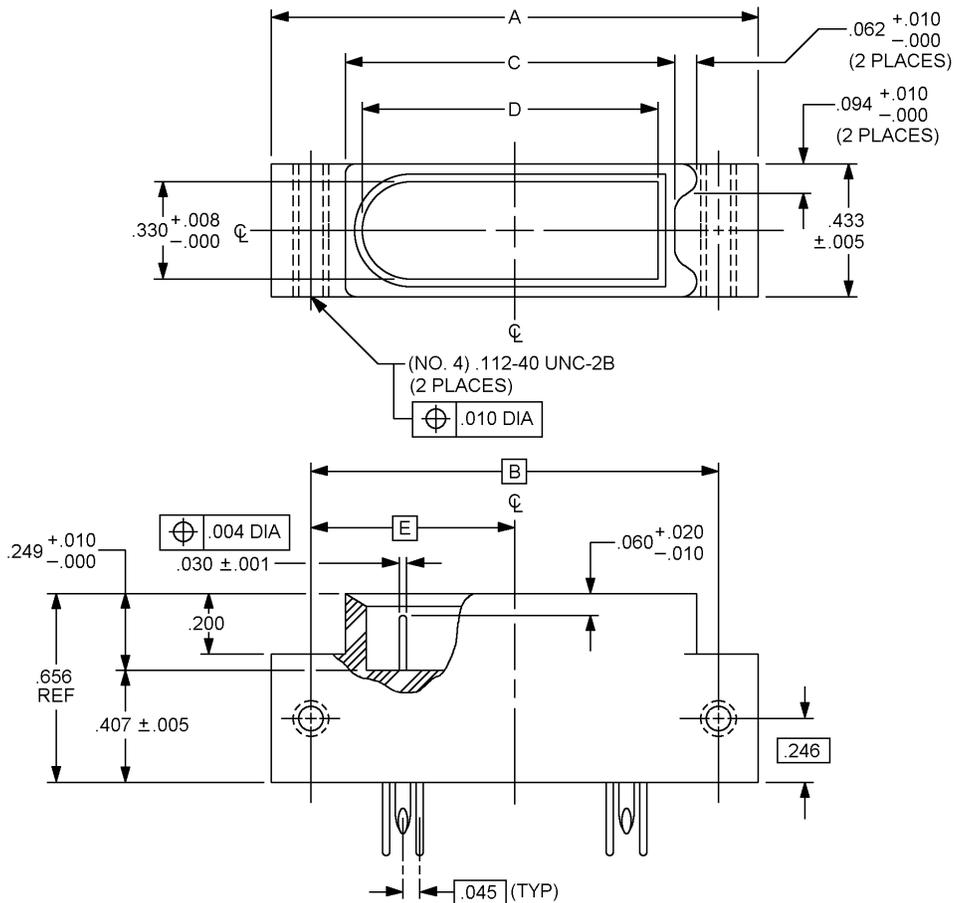
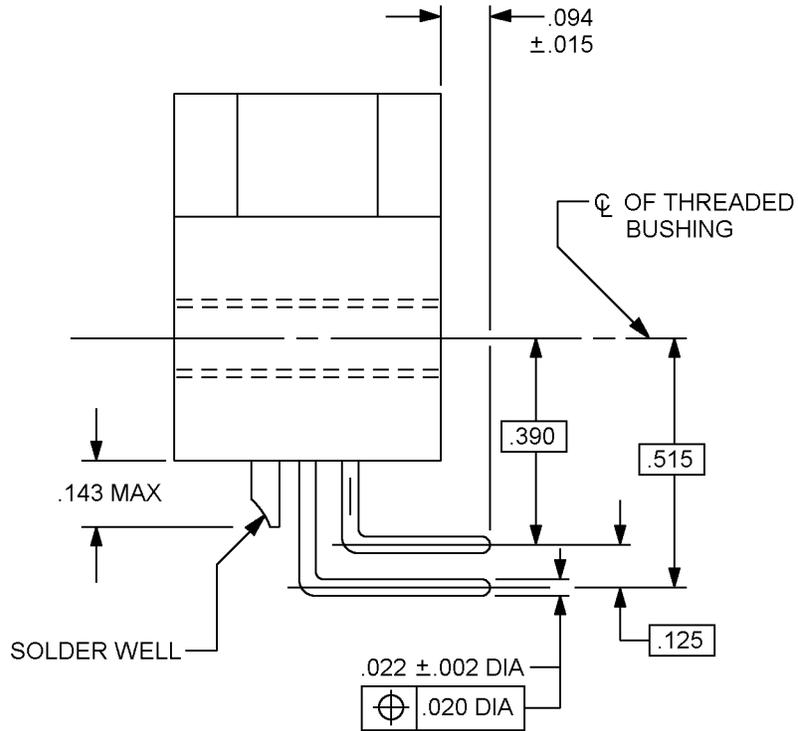


FIGURE 1. Connectors, plug, .090 (2.29 mm) contact spacing pin and solder terminals.

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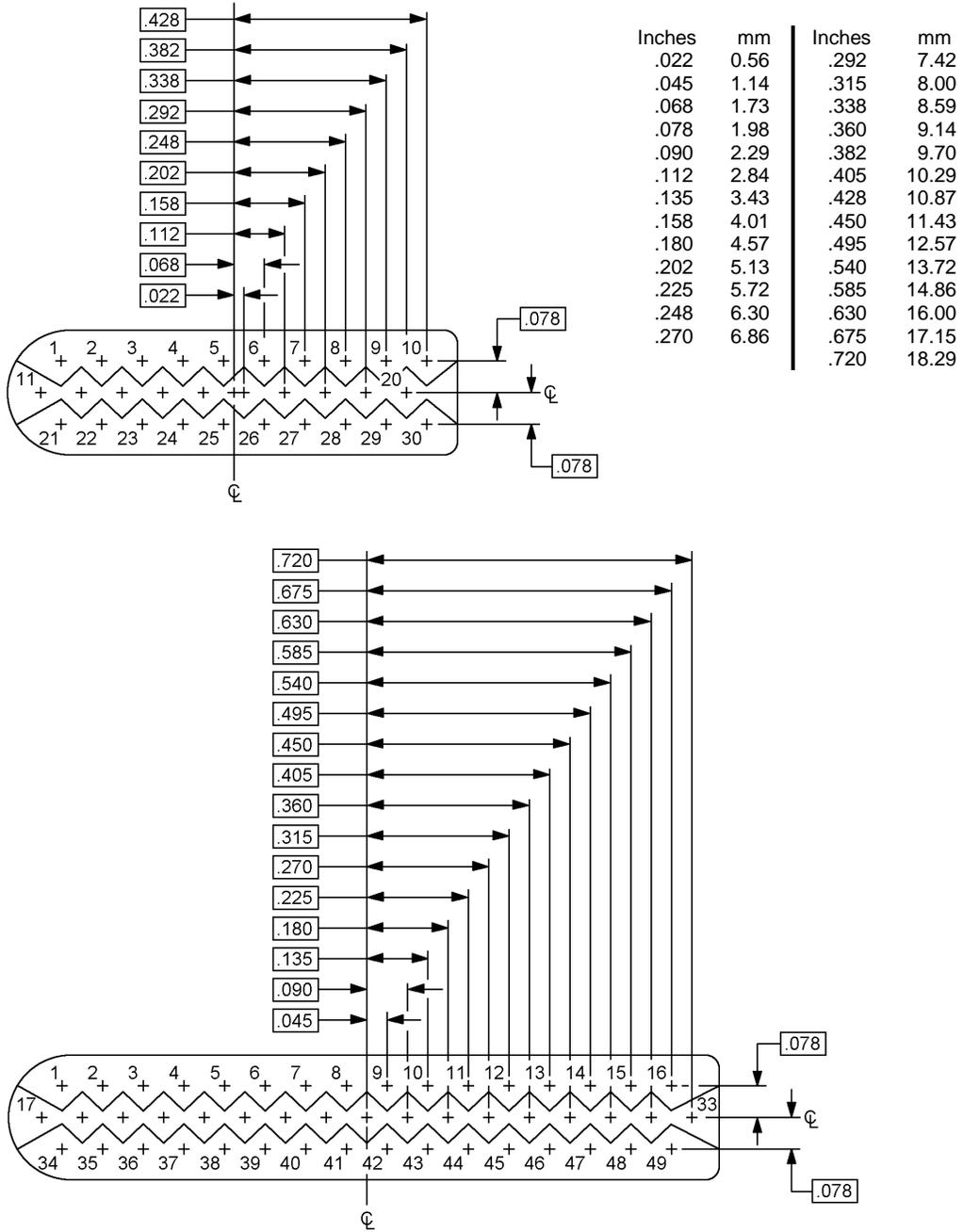
Inches	mm	Inches	mm
.002	0.05	.112	2.84
.005	0.13	.125	3.18
.008	0.20	.143	3.63
.010	0.25	.200	5.08
.015	0.38	.246	6.25
.020	0.51	.249	6.32
.022	0.56	.330	8.38
.030	0.76	.390	9.91
.045	1.14	.407	10.34
.050	1.27	.433	11.00
.060	1.52	.515	13.08
.062	1.5	.656	16.66
.094	2.39		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Nominal spacing between any two adjacent pin contacts shall be $.090 \pm .003$ (2.29 ±.08 mm).
4. Unless otherwise specified, tolerances are $\pm .010$ (0.25 mm).
5. For dimensions A through E see table I.

FIGURE 1. Connectors, plug, .090 (2.29 mm) contact spacing pin and solder terminals.

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NOTES:

1. Contacts 1, 20 and 21 (top of page) are identified on the front face of the connector and contacts 1, 10, 11, 20, 21 and 30 are identified on the rear face per the insert arrangement.
2. Contacts 1, 16 and 49 (bottom of page) are identified on the front face of the connector and contacts 1, 16, 17, 33, 34 and 49 are identified on the rear face per the insert arrangement.

FIGURE 2. Insert arrangement for .090 (2.29 mm) contact spacing connector (male engaging face).

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Requirements:

Dimensions and configuration: See figure 1 and table I.

Material: In accordance with MIL-DTL-55302, except:

Body - reinforced epoxy resin.

Bushing - monel, QQ-N-281, class B, cold drawn.

Plating: The contact plating shall be gold in accordance with ASTM B488, type II, code C, class 1.27 over 100 microinches of copper in accordance with SAE-AMS-2418.

Contact identification: Contact locations are identified numerically as shown on figure 2.

Mating and unmating: The maximum mating force, in pounds, shall be 0.5 times the number of contacts, and the withdrawal force, in pounds, shall be a minimum of 0.08 times the number of contacts and shall not exceed the measured insertion force.

Contact resistance: With a test current of 3A dc, the average resistance of all contact pairs measured shall not exceed 0.010 ohm, and no individual contact pair shall have a resistance exceeding 0.020 ohm.

Dielectric withstanding voltage:

Sea level: 1,000 volts rms, 60 Hz, ac.

High altitude: 275 volts rms, 60 Hz, ac.

Current rating: 3.0 amperes.

Insert arrangement: See figure 2.

Mating connectors: See MIL-DTL-55302/68.

Part or identification number (PIN): M55302/67-(dash number from table I).

TABLE I Dash number and dimensions.

Dash number	Dimensions ^{1/}				
	+0.010 A (.25) -.000	B	+0.010 C (.25) -.000	+0.008 D (.20) -.000	E
01	1.665 (42.29)	1.376 (34.95)	1.096 (27.84)	.996 (25.30)	.688 (17.48)
02	2.246 (5.7.05)	1.960 (49.78)	1.686 (42.82)	1.581 (40.16)	.980 (24.89)

^{1/} Metric equivalent are given for information only. Millimeters are in parentheses.

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

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In addition to MIL-DTL-55302, this specification sheet references the following documents.

MIL-DTL-55302/68
QQ-N-281
ASTM B488
SAE-AMS-2418

CONCLUDING MATERIAL

Custodians:
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC
(Project 5935-4425-001)

Review activities:
Air Force - 19

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://www.dodssp.daps.mil>.