

MILITARY SPECIFICATION SHEET

CONNECTORS, PRINTED CIRCUIT SUBASSEMBLY AND ACCESSORIES:  
RECEPTACLE, 80 CONTACT POSTIONS,  
FOR PRINTED WIRING BOARDS (.050 INCH SPACING)

This specification sheet is approved for use by Rome Air Development Center, Department of the Air Force, and is available for use 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 the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-C-55302.

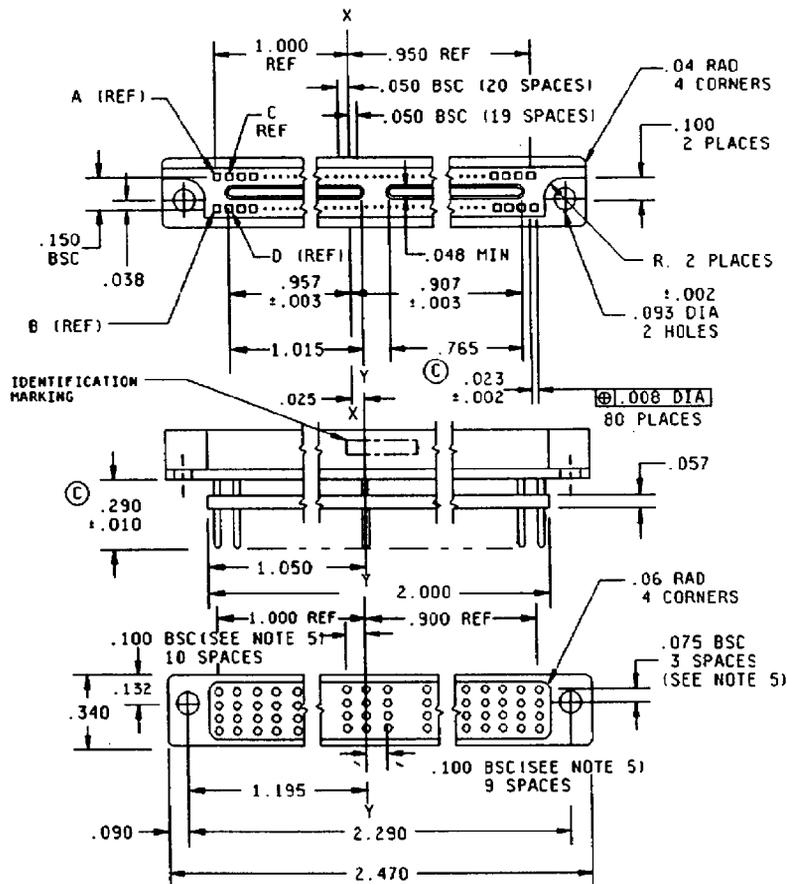
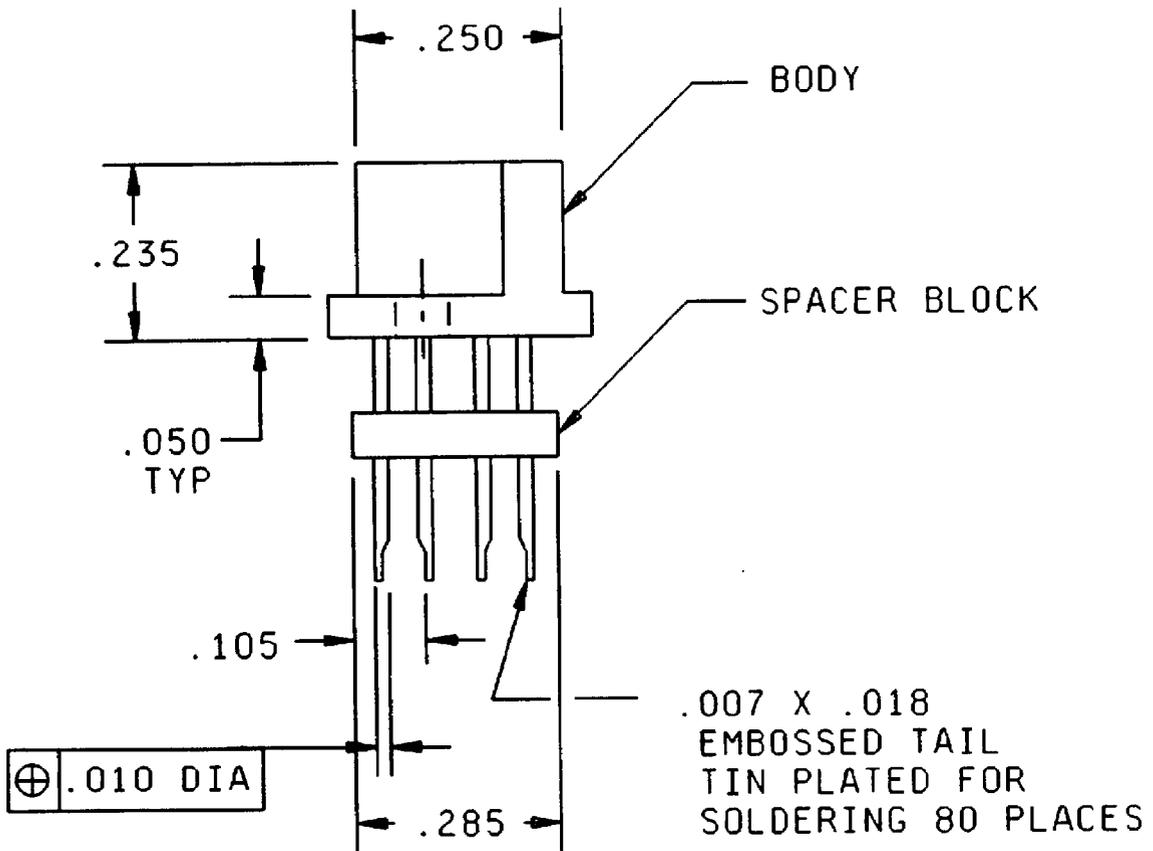


FIGURE 1. Connectors, receptacle, .050 (1.27 mm) spacing.

Ⓒ denotes change



Inches	mm	Inches	mm	Inches	mm	Inches	mm
.002	0.05	.057	1.45	.235	5.97	.957	22.86
.005	0.13	.060	1.52	.250	6.35	1.000	24.13
.008	0.20	.075	1.90	.285	7.24	1.015	25.78
.010	0.25	.090	2.29	.300	7.62	1.050	26.67
.023	0.58	.093	2.36	.340	8.64	1.150	29.21
.025	0.64	.100	2.54	.765	19.43	1.195	30.35
.038	0.97	.105	2.67	.900	22.86	2.000	50.80
.040	1.02	.132	3.35	.907	23.04	2.290	58.17
.048	1.22	.150	3.81	.950	24.13	2.470	62.74
.050	1.27						

NOTES

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is  $\pm 0.005$  (0.13 mm) and  $\pm 2^\circ$  on angles.
4. These connectors mate with connectors specified in MIL-C-55302/125.
5. Dimension applies at point of egress from spacer block.

FIGURE 1. Connectors, receptacle, .050 (1.27 mm) spacing - Continued.

REQUIREMENTS:

Design and construction:

Dimensions and configurations: See figure 1.

Material:

Body: In accordance with MIL-C-55302.

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Plating: Contact plating shall be gold in accordance with MIL-C-55302 over nickel in accordance with MIL-C-55302 in the contact engagement area for .100 inch minimum length. The termination area plating shall be tin lead in accordance with MIL-C-55302 over nickel in accordance with MIL-C-55302 for .250 inch minimum length.

Contact identification: See figure 1.

Contact rating: 1.5 amperes per contact, maximum.

Operating temperature: -65°C to +125°C.

Keying: See MIL-C-55302/31.

Oversized pin exclusion: .0330 diameter pin.

Mating and unmating: The maximum mating force in pounds shall be the number of contacts multiplied by .30 and the withdrawal force in pounds shall be a minimum of .03 times the number of contacts and shall not exceed the measured insertion force.

Contact engagement and separation force:

Engagement force: Maximum force to engage maximum test pin .0190 inch +.0000, -.0001 diameter shall be 6 ounces.

Separation force: Minimum force to extract minimum test pin .0170 inch +.0001, -.0000 diameter shall be .10 ounce.

Contact resistance: The average contact resistance of all contacts measured shall not exceed .025 ohm, and no individual contact pair shall have resistance exceeding .030 ohm.

Contact retention: .75 pound, minimum.

Dielectric withstanding voltage:

Sea level: 450 volts rms.

High altitude: 150 volts rms.

Solderability: Each connector shall be subjected to method 208 of MIL-STD-202 (solder termination only) (applicable to qualification and retention of qualification only).

Part number: M55302/126-01.

Patent number 3,404,367. The Government has a royalty free license under this patent for the benefit of manufacturers of the item either for the Government or for use in equipment to be delivered to the Government.

MIL-C-55302/126C(USAF)

CONCLUDING MATERIAL

Custodian:  
Air Force - 17

Review activities:  
Air Force - 11, 85, 99  
DLA - ES

User activity:  
Air Force - 19

Preparing activity:  
Air Force - 17

Agent:  
DLA - ES

(Project 5935-F414)