

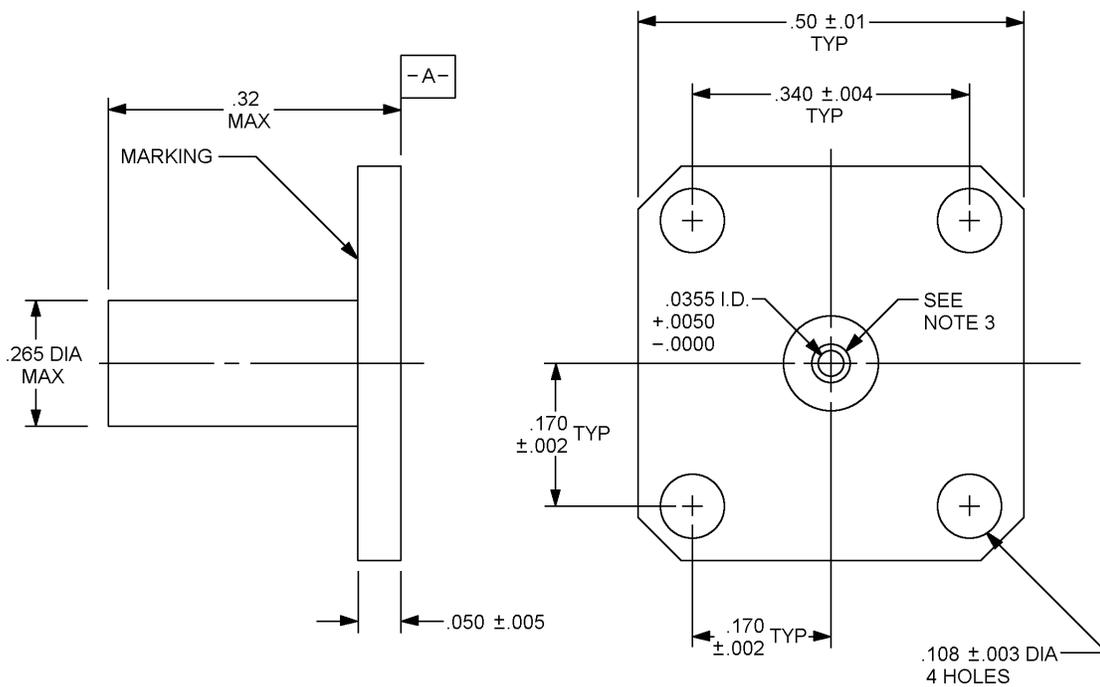
MIL-DTL-39030/13B
 14 April 2003
 SUPERSEDING
 MIL-D-39030/13A
 22 December 1980

DETAIL SPECIFICATION SHEET

DUMMY LOAD, ELECTRICAL,
 TYPE XIV (SOCKET CONTACT), STRIPLINE, LOW POWER

This specification is approved 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 and MIL-DTL-39030.



Inches	mm	Inches	mm
.002	0.05	.050	1.27
.003	0.08	.108	2.74
.004	0.10	.170	4.32
.0050	0.127	.265	6.73
.005	0.13	.32	8.1
.01	0.3	.340	8.6
.0355	0.902	.50	12.7

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Socket contact is recessed .020 ± .003 from surface "A".

FIGURE 1. Dimensions and configuration.

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Electrical characteristics:

Operating frequency: DC to 12.4 GHz.

Voltage standing wave ratio (VSWR): 1.25:1, maximum at 12.4 GHz.

Power:

Average: 1 watt. Average power input is specified at a heat sink temperature of +60°C, and is derated linearly from 100 percent at +25°C to 12.5 percent at +125°C.

Peak: 200 watts. Peak power input is specified at a heat sink temperature of +60°C and 200 watts maximum at 10 microseconds pulse with a .1 percent duty cycle, and is derated linearly from 100 percent at +25°C to 12.5 percent at +125°C. Average power during peak power application shall not exceed maximum average power.

Nominal characteristic impedance: 50 ohms.

Material:

Body: Aluminum alloy in accordance with ASTM B211 and SAE-AMS-QQ-A-225 for dash number 01. Brass in accordance with ASTM B121, ASTM B36, ASTM B16, ASTM B16M, and ASTM B124 for dash number 02.

Finish: Gold plated in accordance with ASTM B488, type 3, grade C, class 1.27 over copper flash. Nickel in accordance with SAE-AMS-QQ-N290.

Socket contact: Beryllium copper in accordance with ASTM B196, ASTM B197, and ASTM B194.

Finish: The male pin shall be a minimum gold thickness of 50 micro inches (1.27 μm) in accordance with ASTM B488, type 3, grade C, class 1.27, over 50 micro inches (1.27 μm) minimum of nickel in accordance with AMS-QQ-N-290, class 1, measured anywhere along the mating surface, for all series. The socket contact shall be a minimum of 50 micro inches (1.27 μm) of gold in accordance with ASTM B488, type 3, grade C, class 1.27, over 50 micro inches (1.27 μm) minimum of nickel in accordance with AMS-QQ-N-290, class 1, including the I.D. measured at a depth of .040 inch minimum. The plating on non-significant surfaces in the I.D. shall be of sufficient thickness to ensure plating continuity and uniform utility and protection. This plating may consist of an underplate only. A silver underplate shall not be permitted.

Weight: .18 ounce, maximum.

Ambient temperature range:

Operating: -55°C to +125°C.

Nonoperating (storage): -65°C to +150°C.

Part or Identifying Number (PIN): M39030/13-01.

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

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:

DLA - CC

(Project 5985-1244-008)

Review activities:

Army - AV, MI
Navy - AS, OS, SH
Air Force - 19