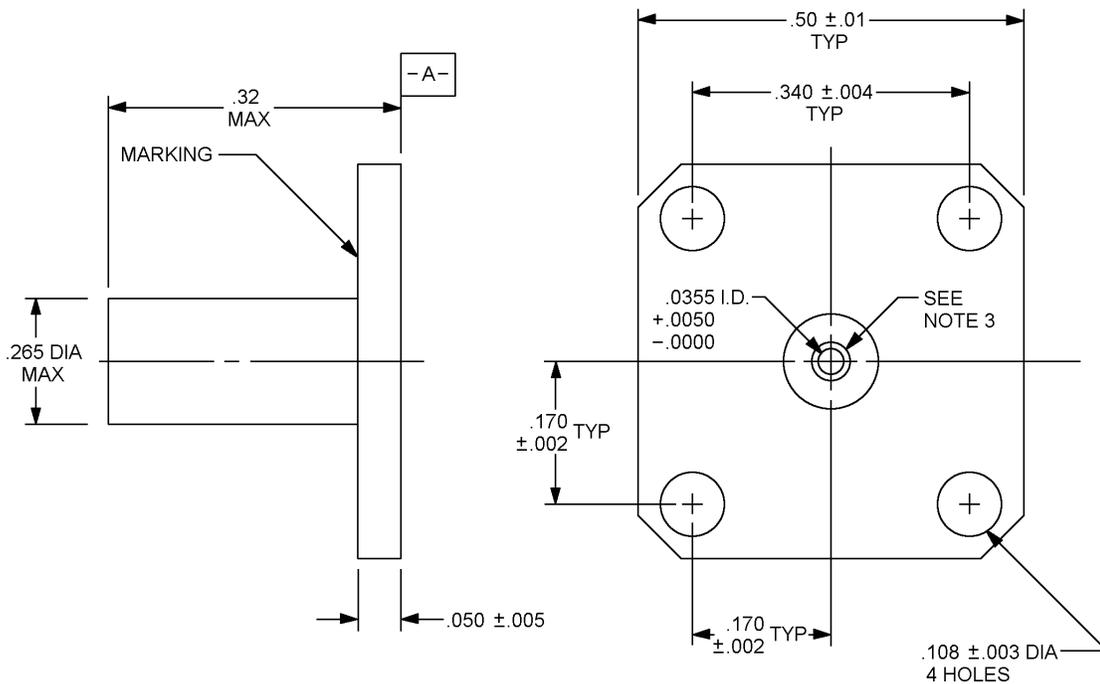


DETAIL SPECIFICATION SHEET

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 sheet 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 for dash number 01.
Brass in accordance with ASTM B121/B121M, ASTM B36/B36M, ASTM B16/B16M, and ASTM B124/B124M for dash number 02.

Finish: Gold plated in accordance with ASTM B488, type II, 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/B196M, ASTM B197/B197M, and ASTM B194.

Finish: The male pin shall be a minimum gold thickness of 50 micro inches (1.27µm) in accordance with ASTM B488, type II, grade C, class 1.27, over 50 micro inches (1.27 µm) minimum of nickel in accordance with SAE-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 (1.27µm) of gold in accordance ASTM B488, type II, grade C, class 1.27, over 50 micro inches (1.27 µm) minimum of nickel in accordance with SAE-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.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents. In addition to MIL-DTL-39030, this document references the following:

ASTM B16/B16M	ASTM B196/B196M
ASTM B36/B36M	ASTM B197/B197M
ASTM B121/B121M	ASTM B488
ASTM B124/B124M	SAE-AMS-QQ-N-290
ASTM B211	
ASTM B194	

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5985-2015-023)

Review activities:

Army - AV, MI
Navy - AS, MC, OS, SH
Air Force - 11, 19, 99

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 information above using the ASSIST Online database at <https://assist.dla.mil>.