

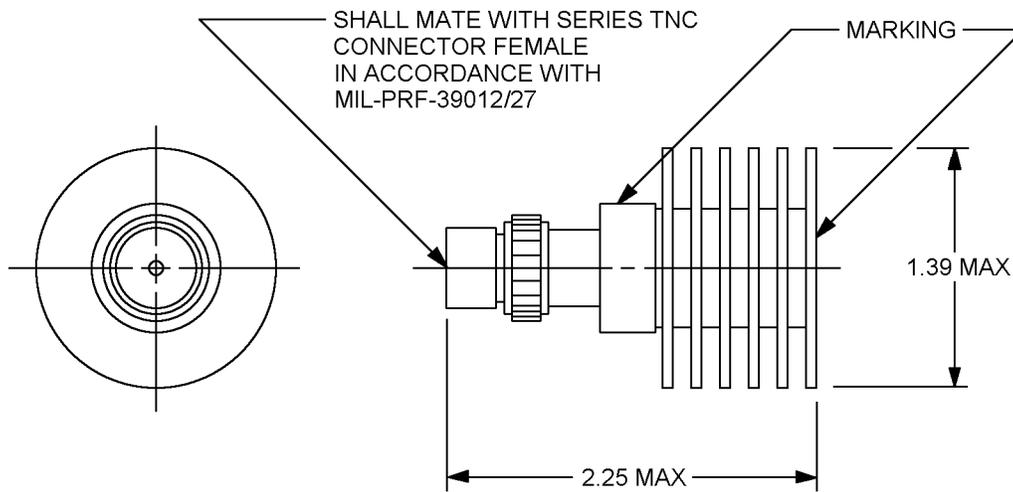
MIL-DTL-39030/8A  
14 April 2003  
SUPERSEDING  
MIL-D-39030/8  
22 December 1980

DETAIL SPECIFICATION SHEET

DUMMY LOAD, ELECTRICAL, COAXIAL,  
TYPE IV (TNC), MEDIUM 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
1.39	35.3
2.25	57.2

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 1. Dimensions and configuration.

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Dimensions and configurations: See figure 1.

Electrical characteristics:

Operating frequency: DC to 6.0 GHz.

Voltage standing wave ratio (VSWR):

1.20:1, maximum (DC to 4.0 GHz).

1.30:1, maximum (4.0 to 6.0 GHz).

Power:

Average: 10 watts.

Peak: 5 kilowatts

NOTE: Power input is derated linearly from 100 percent at +75°C to 10 percent at +125°C.

Nominal characteristic impedance: 50 ohms.

Materials:

Body: Aluminum alloy in accordance with ASTM B211 and SAE-AMS-QQ-A-225.

Finish: Anodized in accordance with MIL-A-8625.

Connector: Corrosion-resistant steel in accordance with SAE-AMS-QQ-S-763.

Finish: Gold plated in accordance with ASTM B488, type 3, and grade C, class 1.27, over copper flash.

Contact pin: 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 $\mu$ m) in accordance with ASTM B488, type 3, grade C, class 1.27, over 50 micro inches (1.27  $\mu$ m) 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 $\mu$ m) of gold in accordance with ASTM B488, type 3, grade C, class 1.27, over 50 micro inches (1.27  $\mu$ m) 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: 2.5 ounces, maximum.

Ambient temperature range:

Operating temperature range: -55°C to +125°C.

Nonoperating (storage): -55°C to +125°C.

Part or Identifying Number (PIN) M39030/8-01.

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

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CONCLUDING MATERIAL

Custodians:  
Army – CR  
Navy - EC  
Air Force –11  
DLA - CC

Preparing activity:  
DLA - CC  
  
(Project 5985-1244-006)

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