

INCH-POUND

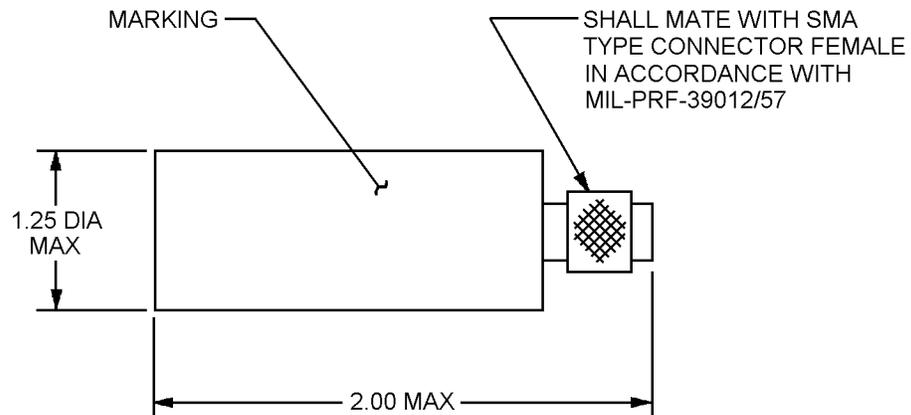
MIL-DTL-39030/4A  
14 April 2003  
SUPERSEDING  
MIL-D-39030/4  
27 March 1975

DETAIL SPECIFICATION SHEET

DUMMY LOADS, ELECTRICAL, COAXIAL,  
TYPE I (SMA), 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
1.25	31.75
2.00	50.80

NOTES:

1. Dimensions are in inches.
2. Millimeters are in parentheses.
3. Metric equivalents are given for general information only.
4. All undimensioned pictorial configurations are for reference purposes only.

FIGUER 1. Dimensions and configuration.

MIL-DTL-39030/4A

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Operating frequency: DC to 12.4 GHz.

Impedance: 50 ohms nominal.

DC resistance:  $50 \pm 2.0$  ohms.

Power handling capability: Derated linearly to 10 percent at 125°C.

Average: 10 watts.

Peak: 3 kilowatts.

Overload: 20 watts for 1 minute.

Material: See table I.

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

Voltage standing wave ratio (VSWR): 1:30:1 maximum (test frequency range .5 to 12.4 GHz).

Force to engage and disengage: Torque 2 inch-pounds, maximum.

Coupling proof torque: 15 inch-pounds minimum.

Threaded coupling connector: For each test of threaded coupling connector where the test is performed on mated pairs, the pairs shall receive 7 to 10-inch-pounds torque.

Connector durability: 500 cycles at 12 cycles per minute maximum. After this test the connector shall meet the engage and disengage requirement.

Barometric pressure: Test condition C.

Weight, maximum: See table I.

Part or Identifying Number (PIN): M39030/4 and dash number from table I.

TABLE I. Dash number, material and weight.

Dash number	Housing	Connector	Weight (oz)
01	Aluminum in accordance with ASTM B211 and SAE-AMS-QQ-A-225 or equivalent	Corrosion resistant steel in accordance with SAE-AMS-QQ-S-763 series 300 passivated	3
02	Corrosion resistance steel in accordance SAE-AMS-QQ-S-763	Beryllium copper in accordance with ASTM B196, ASTM B197, and ASTM B194	5

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 5985-1244-002)

Review activities:

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