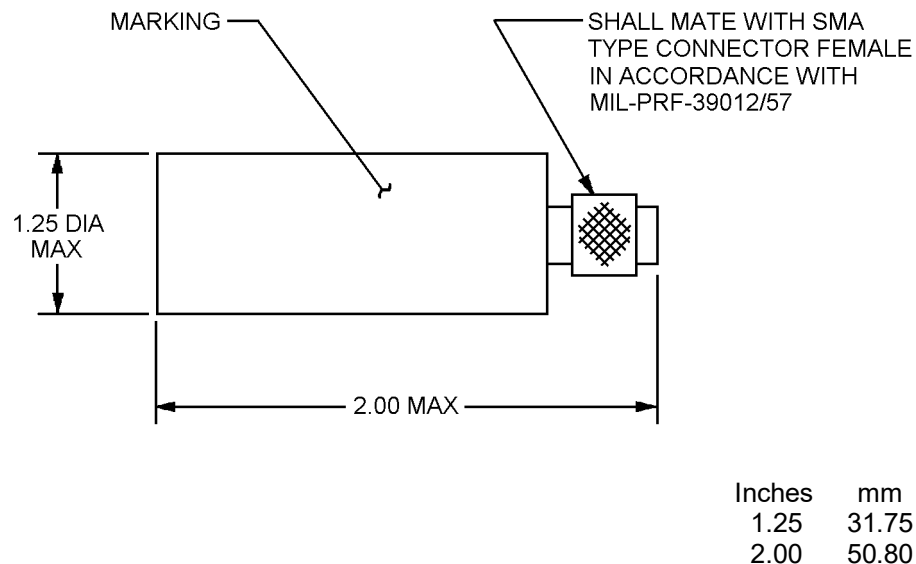


DETAIL SPECIFICATION SHEET

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 sheet and MIL-DTL-39030.



NOTES:

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

FIGURE 1. Dimensions and configuration.

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Operating frequency: DC to 12.4 GHz.

Impedance: 50 ohms nominal.

DC resistance: 50 ± 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/B211M	Corrosion resistant steel in accordance with ASTM A484/A484M or ASTM A582/A582M series 300 passivated	3
02	Corrosion resistance steel in accordance ASTM A484/A484M or ASTM A582/A582M	Beryllium copper in accordance with ASTM B196/B196M, ASTM B197/B197M, and ASTM B194	5

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.

In addition to MIL-DTL-39030, this specification sheet references the following documents:

MIL-PRF-39012/57	ASTM B196/B196M
ASTM A484/A484M	ASTM B197/B197M
ASTM A582/A582M	ASTM B211/B211M
ASTM B194	

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 5985-2020-010)

Review activities:

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

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>.