

INCH-POUND

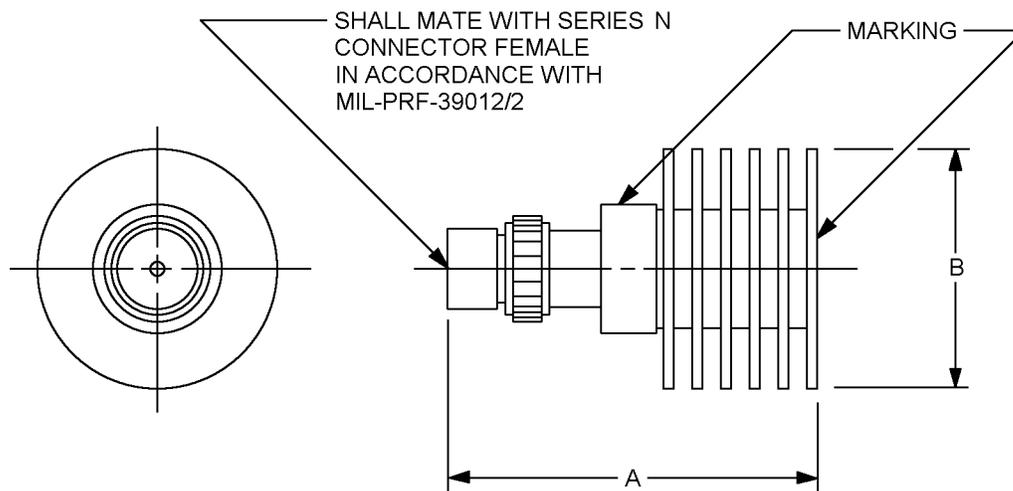
MIL-DTL-39030/11A
w/AMENDMENT 1
10 July 2015
SUPERSEDING
MIL-DTL-39030/11A
14 April 2003

DETAIL SPECIFICATION SHEET

DUMMY LOAD, ELECTRICAL, COAXIAL,
TYPE V (N), HIGH 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.



Dash number	A	B
01	4.61 ±.06	1.63 ±.03
02	5.06 ±.03	1.63 ±.03

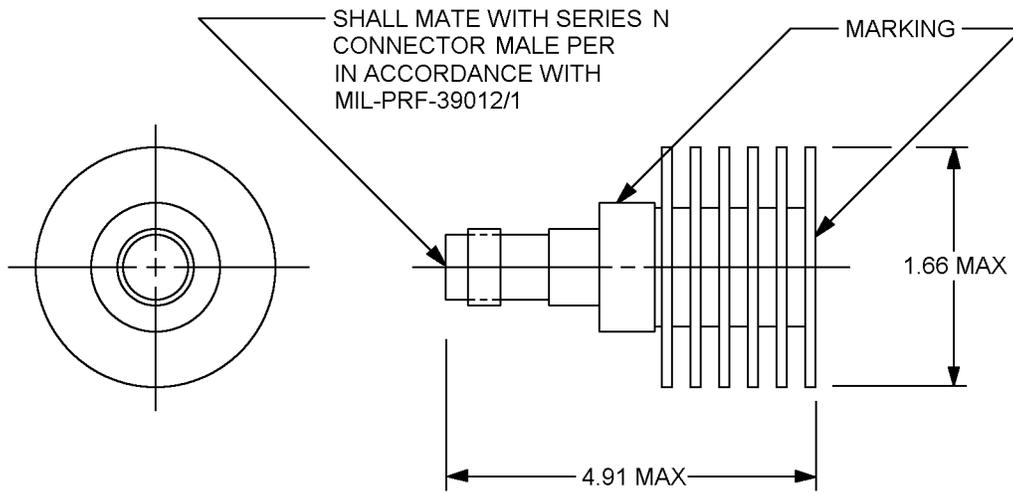
Inches	mm
.03	.8
.06	1.5
1.63	41.4
4.61	117.1
5.06	128.5

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Part or Identifying Number (PIN).

FIGURE 1. Dimensions and configuration, PINs M39030/11-01 and -02.





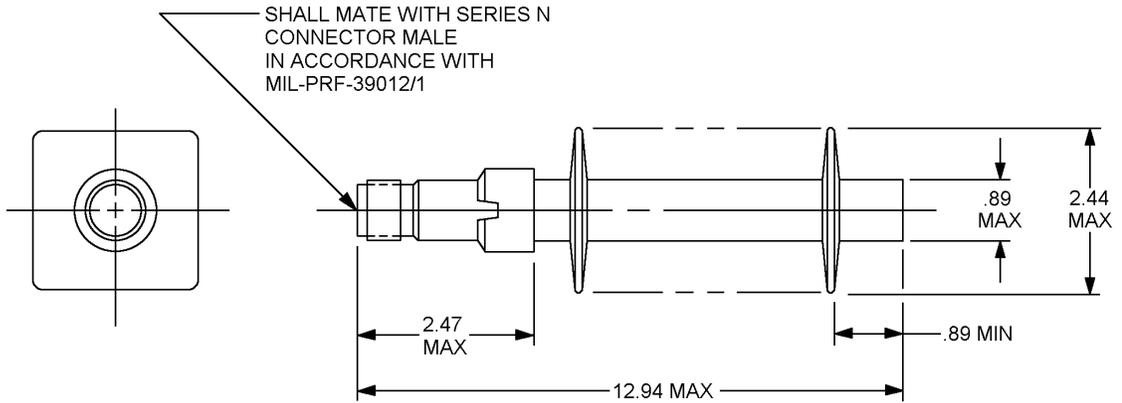
Inches	mm
1.66	42.2
4.91	124.7

NOTES:

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

FIGURE 2. Dimensions and configuration, PIN M39030/11-03.

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Inches	mm
.89	26.6
2.44	62.0
2.47	62.7
12.94	328.7

NOTES:

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

FIGURE 3. Dimensions and configuration, PIN M39030/11-04.

TABLE I. Dash numbers and characteristics.

Dash number	Operating frequency (GHz)	VSWR (max)	Power handling capability (max)		Nominal characteristic impedance (ohms)	Weight (max) (oz)	Finish	Figure number
			Average (watts)	Peak (watts)				
01	DC to 8.0	1.10:1 (DC to 1.0 GHz) 1.20:1 (1.0 to 4.0 GHz) 1.40:1 (4.0 to 8.0 GHz)	50 <u>1/</u>	5.0K <u>1/</u>	50	10	Body <u>2/</u> Connector <u>3/</u>	1
02	DC to 10.0	1.10:1 (DC to 4.0 GHz) 1.30:1 (4.0 to 10.0 GHz)	40 <u>1/</u>	7.5K <u>1/</u>	50	10	Body <u>2/</u> Connector <u>3/</u>	1
03	DC to 10.0	1.10:1 (DC to 4.0 GHz) 1.30:1 (4.0 to 10.0 GHz)	40 <u>1/</u>	7.5K <u>1/</u>	50	10	Body <u>2/</u> Connector <u>3/</u>	2
04	.7 to 18.0	1.20:1	175 <u>1/</u>	10K <u>1/</u>	50	40	Body <u>2/</u> Connector <u>3/</u>	3

1/ Power input is derated linearly from 100 percent at +25°C to 10 percent at specified maximum ambient operating temperature.

2/ Anodized in accordance with MIL-A-8625.

3/ Gold plated in accordance with ASTM B488, type II, grade C, class 1.27.

REQUIREMENTS:

Dimension and configurations: See figures 1 thru 3.

Electrical characteristics: See table I.

Materials:

Body: Aluminum alloy in accordance with ASTM B211.

Finish: See table I.

Connector: Corrosion-resistant steel in accordance with ASTM A484/A484M or ASTM A582/A582M.

Finish: See table I.

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Contact pin and contact socket: 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 (1.27 μ m) in accordance with ASTM B488, type II, grade C, class 1.27, over 50 micro inches (1.27 μ m) 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 (1.27 μ m) of gold in accordance with ASTM B488, type II, grade C, class 1.27, over 50 micro inches (1.27 μ m) 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 emitted.

Weight: See table I.

Ambient temperature range:

Operating:

Dash numbers 01 thru 03: -55°C to +125°C.

Dash number 04: -55°C to +160°C.

Nonoperating (storage):

Dash numbers 01 thru 03: -65°C to +125°C.

Dash number 04: -65°C to +175°C.

PIN: M39030/11-(dash number from table I).

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:

MIL-PRF-39012/1	ASTM B194
MIL-PRF-39012/2	ASTM B196/B196M
MIL-A-8625	ASTM B197/B197M
ASTM A484/A484M	ASTM B211
ASTM A582/A582M	ASTM B488
	SAE-AMS-QQ-N-290

CONCLUDING MATERIAL

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

Preparing activity:
DLA - CC

(Project 5985-2015-022)

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>.