

INCH-POUND

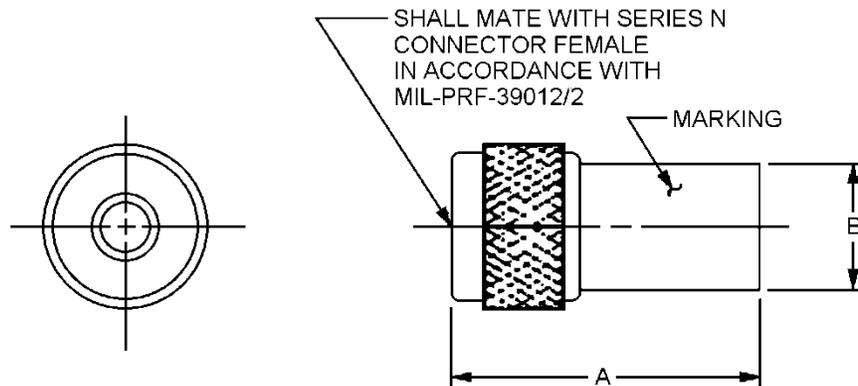
MIL-DTL-39030/6C  
w/AMENDMENT 2  
10 July 2015  
SUPERSEDING  
MIL-DTL-39030/6C  
w/AMENDMENT 1  
23 January 2013

DETAIL SPECIFICATION SHEET

DUMMY LOADS, ELECTRICAL, COAXIAL,  
TYPE V (N), 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.



Dash number	A max	B max
01	1.64 (41.7)	.76 (19.3)
02	1.90 (48.3)	.76 (19.3)
06	1.60 (40.6)	.81 (20.6)

NOTES:

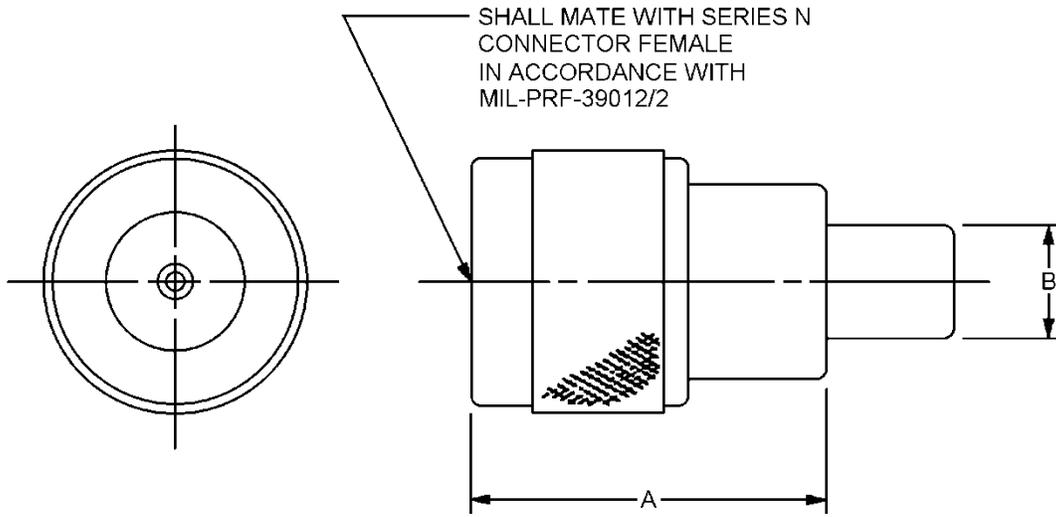
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Part or Identifying Number (PIN).

FIGURE 1. Dimensions and configuration, PINs M39030/6-01, -02 and -06.

AMSC N/A

FSC 5985



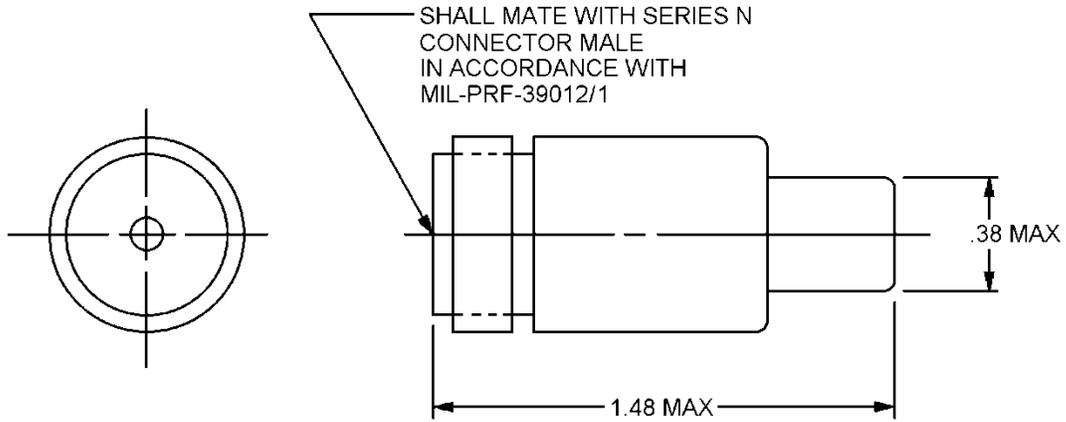


Dash number	A max	B max
03	1.51 (38.4)	.38 (9.7)
05	1.64 (41.7)	.70 (17.8)

NOTES:

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

FIGURE 2. Dimensions and configuration, PINs M39030/6-03, and -05.

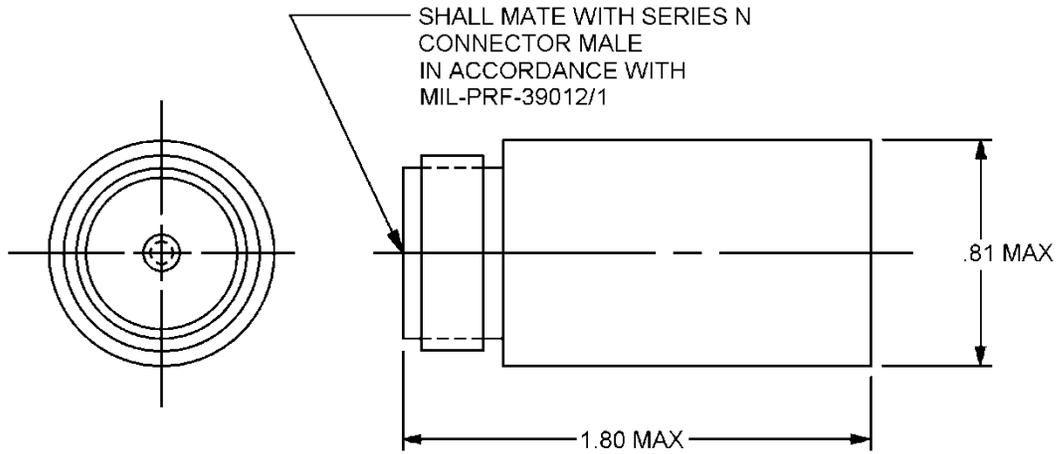


Inches	mm
.38	9.7
1.48	37.6

NOTES:

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

FIGURE 3. Dimensions and configuration, PIN M39030/6-04.



Inches	mm
.81	20.6
1.80	45.6

NOTES:

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

FIGURE 4. Dimensions and configuration, PIN M39030/7.

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 <u>1/</u>	DC to 12.4	1.05:1 (DC to 4.0 GHz) 1.20:1 (4.0 to 12.4 GHz)	5 <u>2/</u>	2K <u>2/</u>	50	3	Gold plated in accordance with ASTM B488, type II Class 1.27	1
02 <u>3/</u>	DC to 12.4	1.35:1	1 <u>2/</u>	1.0K <u>2/</u>	50	3	Gold plated in accordance with ASTM B488, type II Class 1.27	1
03	.03 to 12.4	1.10:1	1 <u>2/</u>	0.5K <u>2/</u>	50	3	Nickel plated in accordance with SAE-AMS-QQ-N-290	2
04	.03 to 12.4	1.10:1	1 <u>2/</u>	0.5K <u>2/</u>	50	3	Nickel plated in accordance with SAE-AMS-QQ-N-290	3
05	DC to 12.4	1.15:1	5 <u>2/</u>	2.0K <u>2/</u>	50	5	Anodized in accordance with MIL-A-8625	2
06	DC to 18.0	(1.05 +.007f ):1 <u>4/</u>	<u>2/</u>	1.0K <u>2/</u>	50	3	Passivated in accordance with ASTM-A967	1
07	DC to 18.0	(1.025 +.004f ):1 <u>4/</u>	<u>2/</u>	1.0K <u>2/</u>	50	3	Passivated in accordance with ASTM-A967	4

1/ Use for replacement part only, for new design use dash number 05.

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

3/ Use for replacement part only, for new design use dash number 06.

4/ "f" is the frequency in GHz.

REQUIREMENTS:

Dimensions and configurations: See figures 1 thru 4.

Electrical characteristics: See table I.

Materials:

Body: Corrosion-resistant steel in accordance with ASTM A484/A484M, stainless steel type 303 in accordance with ASTM-A582/A582M (dash number 01 thru 04, 06 and 07) or 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.

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 plated to a minimum gold thickness of 50 micro inches (1.27 $\mu$ m) in accordance with ASTM B488, type II, grade C, class 1.27, over 50 micro inches (1.27  $\mu$ 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 plated to a minimum of 50 micro inches (1.27 $\mu$ m) of gold in accordance with ASTM B488, type II, grade C, class 1.27, over 50 micro inches (1.27  $\mu$ m) minimum of nickel in accordance with SAE-AMS-QQ-N-290, class 1, including the ID, measured at a depth of .040 inch minimum. The plating on non-significant surfaces in the ID 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: See table I.

Ambient temperature range:

Operating:

Dash numbers 01 thru 04, 06 and 07: -55°C to +125°C.

Dash numbers 05: -55°C to +105°C.

Non-operating (storage): -65°C to +165°C.

Dash numbers 01 thru 04, 06 and 07: -65°C to +125°C.

Dash numbers 05: -65°C to +125°C.

Barometric pressure: Method 105 of MIL-STD-202, test condition C.

PIN: M39030/6-(dash number from table I).

Certain provisions of this specification sheet are the subject of International Standardization Agreement NATO STANAG 3632. When amendment, revision or cancellation of this specification sheet is proposed that will modify the international agreement concerned, the preparing activity will take appropriate action through international agreement standardization channels, including departmental standardization offices to change the agreement or make other appropriate accommodations.

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-STD-202	ASTM B194
MIL-A-8625	ASTM B196/B196M
MIL-PRF-39012/1	ASTM B197/B197M
MIL-PRF-39012/2	ASTM B211
ASTM A484/A484M	ASTM B488
ASTM A582/A582M	SAE-AMS-QQ-N-290
ASTM A967	NATO STANAG 3632

#### CONCLUDING MATERIAL

Custodians:

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

Preparing activity:  
DLA - CC

(Project 5985-2015-019)

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