

INCH-POUND

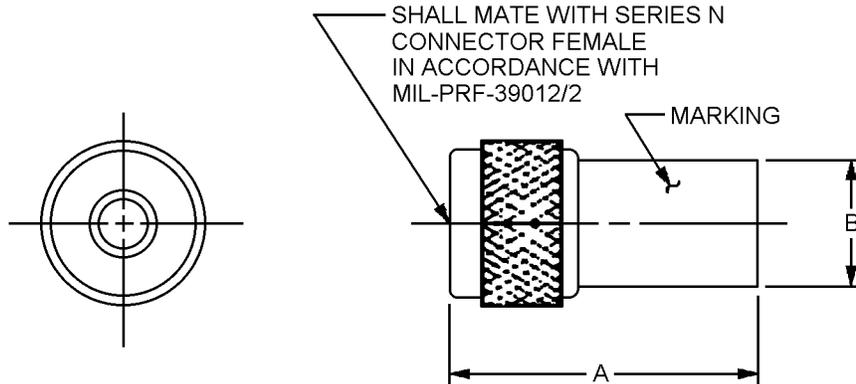
MIL-DTL-39030/6B
14 April 2003
SUPERSEDING
MIL-D-39030/6A
22 December 1980

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 and MIL-DTL-39030.



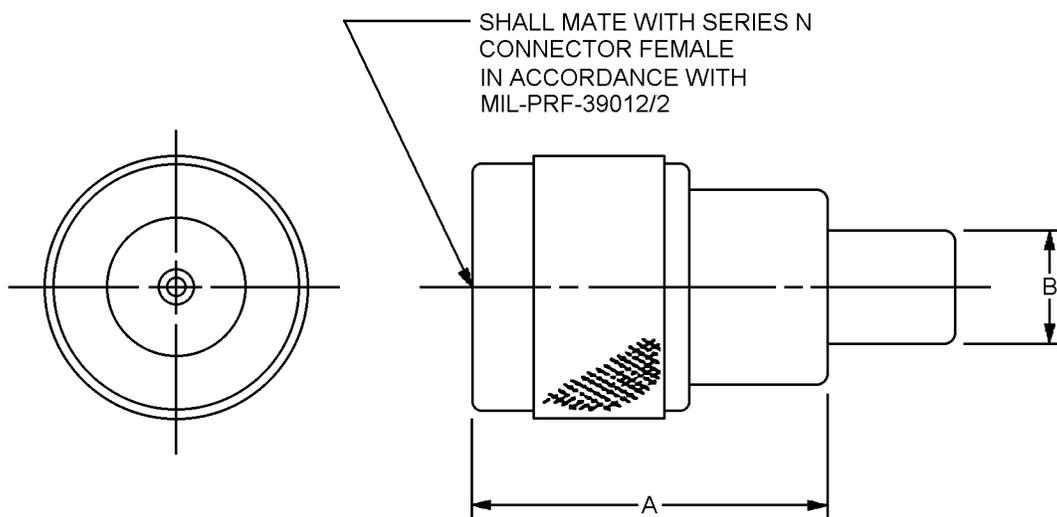
Dash number	A max	B max
01	1.64 (41.7)	.76 (19.3)
02	1.90 (48.3)	.76 (19.3)
06	1.60 (40.6)	.81 (20.6)

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.

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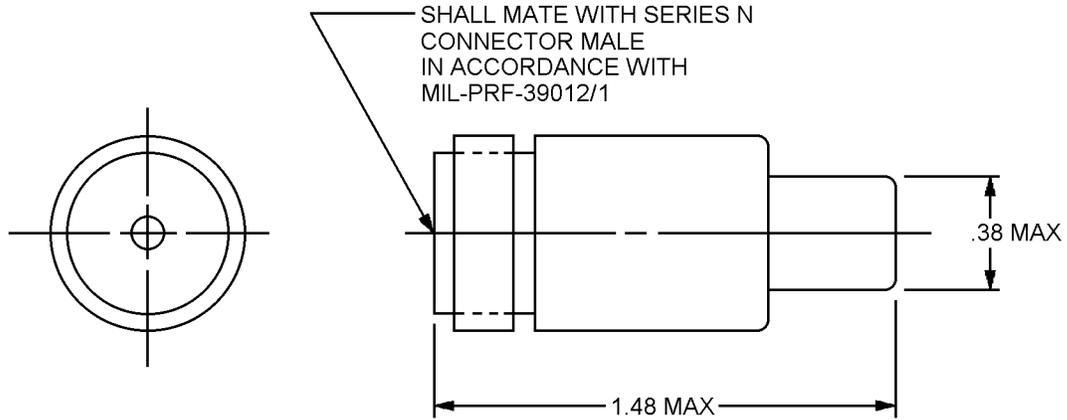
Dash number	A max	B max
03	1.51 (38.4)	.38 (9.7)
05	1.64 (41.7)	.70 (17.8)

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.

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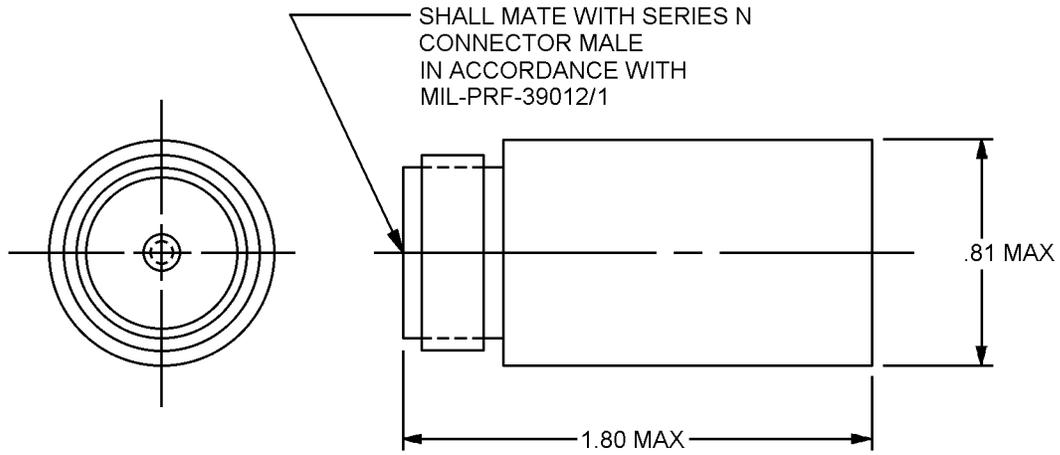
Inches	mm
.38	9.7
1.48	37.6

NOTES:

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

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

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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 3 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 3 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 or SAE-AMS-QQ-P-35	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 or SAE-AMS-QQ-P-35	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 SAE-AMS-QQ-S-763, stainless steel type 303 in accordance with ASTM-A582 (dash number 01 thru 04, 06 and 07) or aluminum alloy in accordance with SAE-AMS-QQ-A-225).

Finish: See table I.

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

Finish: See table I.

Contact pin and contact socket: Beryllium copper in accordance with ASTM B196, ASTM B197 and ASTM B194.

Finish: The male pin shall be plated to a minimum gold thickness of 50 micro inches (1.27 μ m) in accordance with ASTM B488, type 3, grade C, class 1.27, over 50 micro inches (1.27 μ 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 plated to a minimum of 50 micro inches (1.27 μ m) of gold in accordance with ASTM B488, type 3, grade C, class 1.27, over 50 micro inches (1.27 μ 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: 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).

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 5985-1244-005)

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