

INCH-POUND

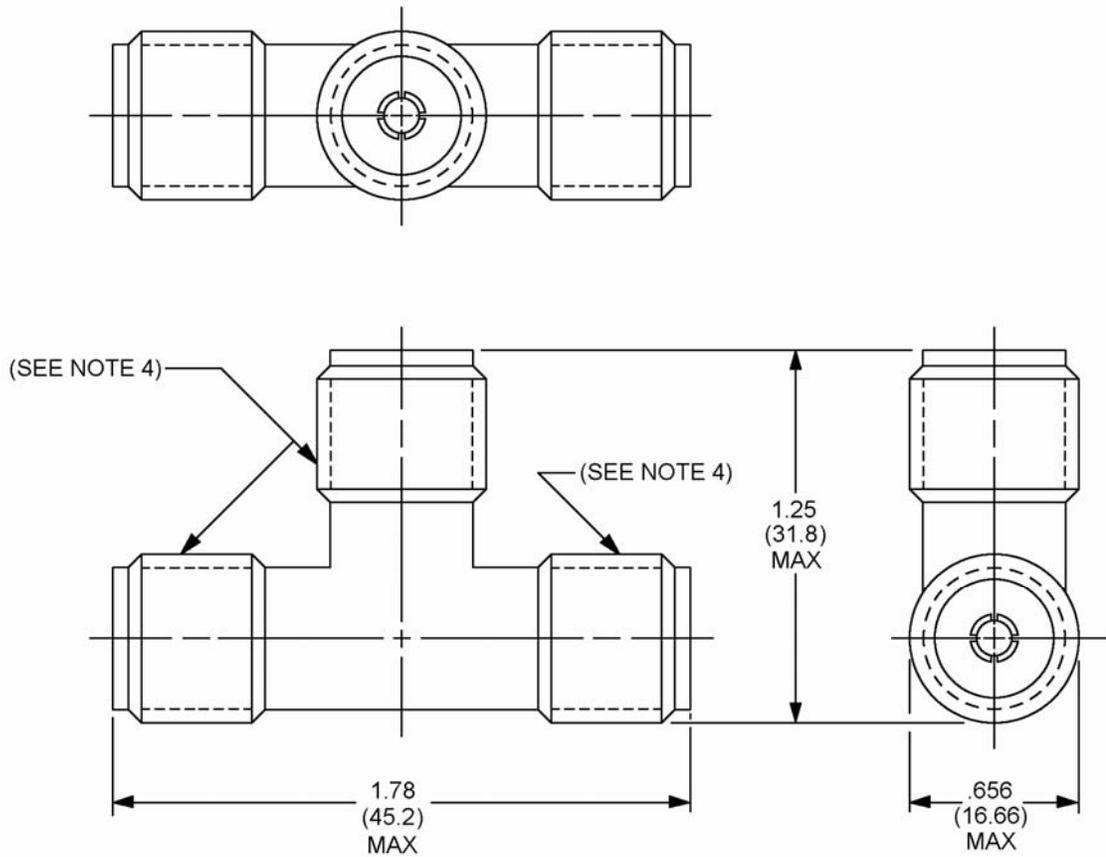
MIL-PRF-55339/6B
25 August 2004
SUPERSEDING
MIL-PRF-55339/6A
13 July 1987

PERFORMANCE SPECIFICATION SHEET

ADAPTER, CONNECTOR, COAXIAL, RADIO FREQUENCY,
(WITHIN SERIES N), CLASS 2, "T" PLUG

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

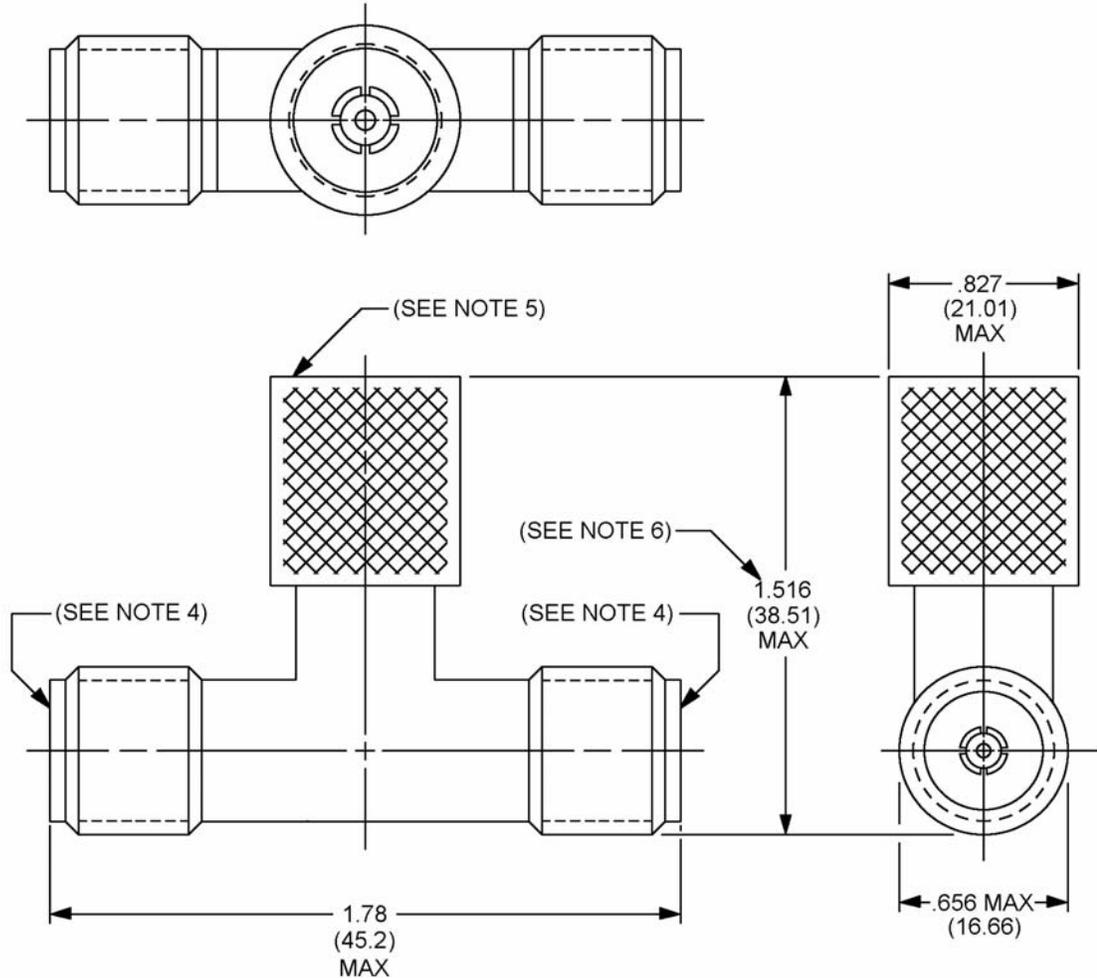
The requirements for acquiring the product described herein shall
consist of this specification sheet and MIL-PRF-55339.



Part or Identifying Number (PIN): M55339/06-00028 or M55339/06-70001

FIGURE 1. General configurations.

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PIN: M55339/06-00001 or M55339/06-70002

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. All undimensioned pictorial representations are for reference purposes only.
4. N interface, socket contact, in accordance with MIL-STD-348.
5. N interface, pin contact, in accordance with MIL-STD-348.
6. Maximum dimension applies when the coupling nut is biased forward.

FIGURE 1. General configurations – Continued.

Design and construction:

Dimensions and configurations: See figure 1 and MIL-STD-348.

Impedance: 50 ohms, nominal.

Working voltage:

Sea level: 1,000 V rms.
70,000 feet (4.437 kPa): 250 V rms.

Frequency range: Not applicable.

Temperature range: -65° to +165°C.

PERFORMANCE REQUIREMENTS (installation torque of 6 to 10 inch-pounds (0.68 to 1.13 Nm))

Center contact retention:

Axial force: 6 pounds (26.69 N) minimum.
Torque: 4 inch-ounces (0.03 Nm), minimum.

Force to engage and disengage:

Longitudinal force: Not applicable.
Torque: 6 inch-pounds (0.68 Nm), maximum.

Coupling proof torque: Not applicable.

Mating characteristics:

Center contact (socket):

Oversize test pin diameter: .074 inch (1.88 mm), minimum.
Insertion depth: .125 inch (3.18 mm), minimum.
Number of insertions: 1.

Maximum test pin (insertion force test):

Steel test pin diameter: .066 inch (1.68 mm), minimum.
Pin finish: 16 microinches (0.41 μ m).
Insertion force: 2 pounds (8.89 N), maximum.
Number of insertions: 1.

Minimum test pin (withdrawal force):

Steel test pin diameter: .063 inch (1.60 mm), maximum.
Pin finish: 16 microinches (0.41 μ m).
Withdrawal force: 2 ounces (0.56 N), minimum.
Number of withdrawals: 1.

Outer contact:

Minimum test ring inner diameter: .316 in. (8.03 mm), maximum.
Ring finish: 16 microinches (0.41 μ m).
Insertion force: 25 pounds (111.2 N), maximum.
Insertion depth: .093 inch (2.63 mm), minimum.
Number of insertions: 1.

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Maximum test ring inner diameter: .324 inch (8.23 mm), minimum.

Test ring finish: 16 microinches (0.41 μm).

Insertion depth: .031 inch (0.79 mm), maximum.

Number of insertions: 1.

Permeability: <2.0.

Seal: Hermetic: Not applicable.

Pressurized: Not applicable.

Weatherproof: Not applicable.

Insulation resistance: 5,000 megohms, minimum.

VSWR: Not applicable.

RF leakage (total): Not applicable.

RF insertion loss: Not applicable.

Durability: 500 cycles minimum at 12 cycles/min, maximum. The connector shall meet the mating characteristics and force to engage and disengage requirements.

Dielectric withstanding: Test voltage: 2,500 V rms, minimum (sea level).

Contact resistance (milliohms, maximum):

<u>Contact</u>	<u>Initial</u>	<u>After environment</u>
Center	2.5	3.0
Outer	0.2	N/A
Outer (-70001, -70002)	0.4	N/A

Vibration, high frequency:

Interruptions: 1 μs , max.

Shock: Test condition I.

Thermal shock: Test condition C.

Moisture resistance: 200 megohms, minimum.

Corona level:

Voltage: 500 V, minimum.

Altitude: 70,000 feet (4.437 kPa), minimum.

RF high potential withstanding voltage:

RF voltage: 1,500 V rms, minimum.

Frequency: 5 MHz, minimum.

Salt spray (corrosion): Applicable.

Coupling mechanism retention force: 100 pounds (4447.82 N), minimum.

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PIN: M55339/06-00028, M55339/06-00001, M55339/06-70001 and M55339/06-70002.

PIN: M55339/06-70001 and M55339/06-70002. **CAUTION: THESE PARTS HAVE A NICKEL PLATED BODY AND ARE NOT FOR USE IN APPLICATIONS WHERE PASSIVE INTERMODULATION GENERATION (PIM) MAY BE A CONCERN.**

Cross reference: See table I.

TABLE I. Cross reference of PIN.

PIN	Superseded PIN or type designation ^{1/}
M55339/06-00028	MS15506 REB49077 UG-28A/U
M55339/06-00001	REB49080 UG-107B/U

^{1/} The superseded PIN or the type designation is for cross reference only. Where a superseded PIN or type designation is not given, none was assigned or will be assigned. The PIN: M55339/06-00028 and M55339/06-00001 shall be used in all cases for marking and identifying the adapter.

Group qualifications: See table II.

TABLE II. Group qualifications.

Group	Submission and qualification of any of the following connectors	Qualifies the following connectors
I	M55339/06-00001 M55339/06-00028	M55339/06-00001 and M55339/06-00028

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Referenced documents. In addition to MIL-PRF-55339, this document references the following:

MIL-STD-348

CONCLUDING MATERIAL

Custodians:
Army – CR
Navy – EC
Air Force – 11
DLA - CC

Preparing activity:
DLA - CC

(Project 5935-4657-005)

Review activities:
Army – AR, AT, MI
Navy – AS, MC, SH
Air Force – 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 <http://assist.daps.dla.mil>.