

Models 1457 & 1458 Medium Power Coaxial Terminations

dc to 18.0/22.0 GHz
50 Watts



Convection Cooled, 3.5mm & TNC Connectors



Features

- /// **Compact Construction** - Lowest size/power ratio.
- /// **Rugged Construction** - Quality connector with special high temperature support bead.
- /// **Ideal for Space & Airborne Applications**

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: Model 1457: dc to 18.0 GHz
Model 1458: dc to 22.0 GHz

MAXIMUM SWR:

Frequency (GHz)	Model	SWR
dc - 18.0	1457	1.30
dc - 22.0	1458	1.30

POWER RATING: 50 watts **average**, 5 kilowatts **peak** (1 μ sec pulse width; 0.5% duty cycle) with case temperature held within **90°C maximum** with appropriate conductive heatsink.

TEMPERATURE RANGE: -55°C to 90°C case.

CALIBRATION: SWR Testing performed across the frequency band. Test data is available at additional cost.

CONNECTOR: **Model 1457:** TNC connectors per MIL-STD-348 interface dimensions - mates nondestructively with MIL-C-39012 connector. Choice of male (-7) or female connector (-6)

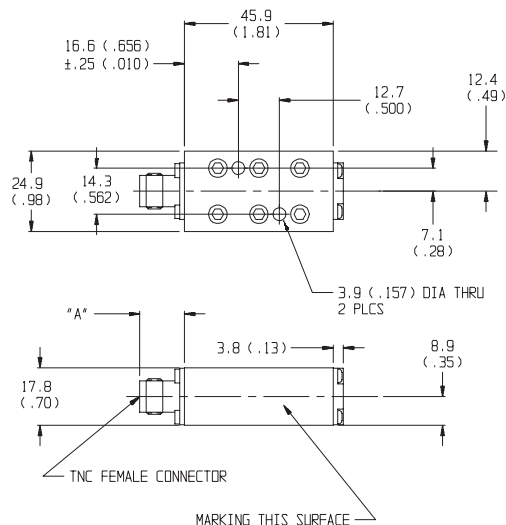
Model 1458: 3.5mm connectors - mate nondestructively with SMA per MIL-C-39012, 2.92mm, and other 3.5mm connectors. Choice of male (-2) or female connector (-1).

CONSTRUCTION: Aluminum alloy body, stainless steel connector; gold plated beryllium copper contacts.

WEIGHT: **Model 85:** Net 64 g (2.2 oz) maximum
Model 86: Net 56 g (1.9 oz) maximum

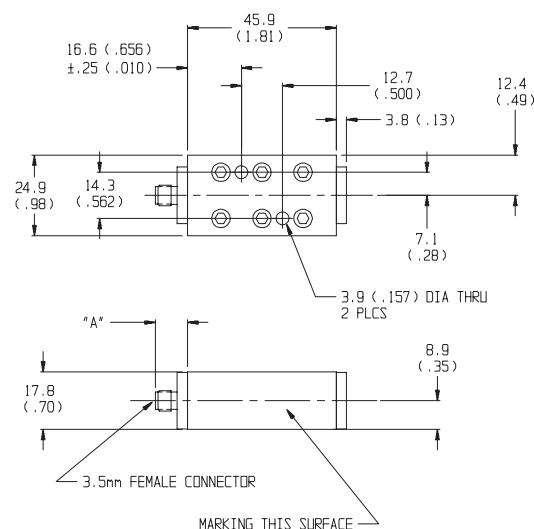
PHYSICAL DIMENSIONS:

Model 1457 (TNC):



Model #	DIM A	Connector Type
1457-6	13.8 \pm 0.25 (0.546 \pm 0.01)	TNC female
1457-7	18.9 \pm 0.25 (0.744 \pm 0.01)	TNC male

Model 1458 (3.5mm)



Model #	DIM A	Connector Type
1458-1	9.9 \pm 0.5 (0.35 \pm 0.02)	3.5mm female
1458-2	13.4 \pm 0.5 (0.53 \pm 0.02)	3.5mm male

NOTE: All dimensions are given in mm (inches) and are maximum, unless otherwise specified.