Model 89
Medium Power, SMK Connectors

dc to 40.0 GHz
20 Watts

Features

- **Compact Construction -** Lowest size/power ratio.
- **Precision injection molded connectors.**
- **Designed to meet environmental requirements of MIL-DTL-3933.**

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 40.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:	
Nominal ATTN (dB)	Deviation (dB)
10, 20, 30	± 1.5

MAXIMUM SWR:	
Frequency (GHz)	SWR
dc - 18	1.25
18 - 40	1.40

POWER RATING (mounted horizontally): 20 watts **average (unidirectional)** to 25°C ambient temperature, derated linearly to 2 Watts @ 125°C. 200 watts **peak** (5 µsec pulse width; 5% duty cycle). Maximum power into output port is 5 Watts.

POWER COEFFICIENT: <0.002 dB/dB/watt

TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C

TEMPERATURE RANGE: -55 °C to 125 °C

TEST DATA: Swept data plots of attenuation and SWR from 50 MHz to 40 GHz.

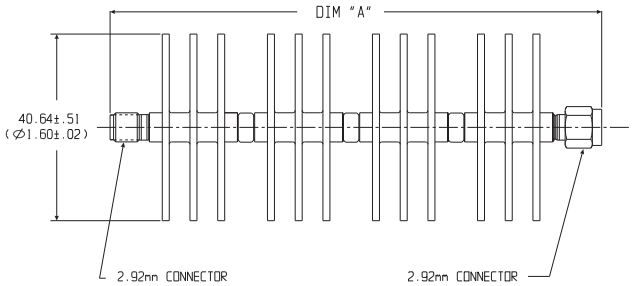
CONNECTORS: SMK (2.92mm) Male/Female connectors - mate nondestructively with SMA per MIL-C-39012, 3.5mm and other 2.92mm connectors.

Connector Options	Type/Description
1	2.92mm, Female
2	2.92mm, Male

CONSTRUCTION: Black, finned aluminum body, gold plated beryllium copper contacts.

WEIGHT: 200 g (8.0 oz.) maximum

PHYSICAL DIMENSIONS:



Dash No.	Connector Type	DIM A
11	2.92mm Female/Female	106.2 (4.18)
12	2.92mm Female/Male	109.2 (4.30)
21	2.92mm Male/Female	109.2 (4.30)
22	2.92mm Male/Male	112.0 (4.40)

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

MODEL NUMBER DESCRIPTION:

Example:

89 - XX - XX

- **89** — Basic Model Number
- **XX** — Attenuation Value (dB)
- **XX** — Connector Options
  - -11 Female/Female
  - -12 Female/Male
  - -21 Male/Female
  - -22 Male/Male

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