

## Model 58

High Power, N or SMK Connectors Convection Cooled

 **RoHS**

DC to 6.0 GHz  
250 Watts

### Features

- Quality connectors with special high temperature support beads
- Designed to meet environmental requirements of MIL-DTL-3933

### Specifications

**Nominal Impedance:** 50  $\Omega$

**Frequency Range:** 6.0 GHz

#### Maximum Deviation Over Frequency:

Nominal ATTN (dB)	Deviation (dB)		
	45	58	58 LIM
3, 6	$\pm 0.50$	$\pm 1.50$	- - -
10, 20	$\pm 0.50$	$\pm 1.50$	$\pm 2.00$
30, 40	$\pm 0.50$	$\pm 1.75$	$\pm 3.00$

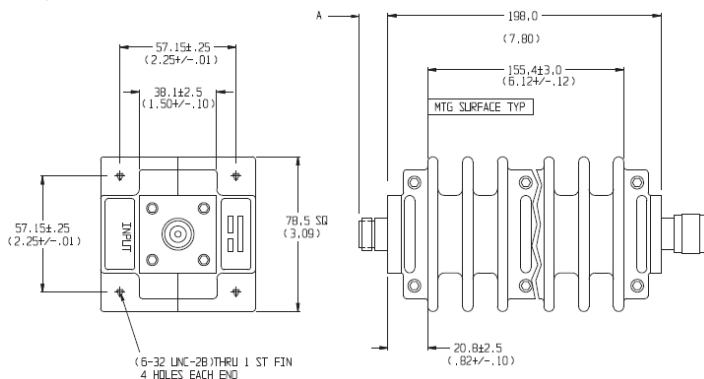
#### Maximum SWR:

Frequency (GHz)	45/58		58 LIM	
	Input	Output	Input	Output
dc - 2	1.10	1.20 (1.10*)	1.20	1.25
2 - 6	1.15	1.25	1.20	1.25

#### 3rd Order Intermodulation (58-Xx-Xx-Lim Only):

Reflected Levels (IM3), -100 & Through Levels (IM3), -110 dBc with two input signals @ 869 MHz and 891 MHz with average carrier power levels of +43 dBm each.

### Physical Dimensions



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



#### Power Rating (Mounted Horizontally With Fins

**Vertical):** 250 watts average (unidirectional) to 55°C ambient temperature, derated linearly to 25 watts @ 125°C. 10 kilowatt peak (5  $\mu$ sec pulse width; 1.25% duty cycle). Maximum power rating into output port is 50 watts average.

**Power Coefficient:** <0.0001 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 1.5 / 6 GHz.

#### Connectors:

Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. SMK (2.92mm) connectors - mate nondestructively with SMA per MIL-C-39012, 3.5mm, SMK, and other 2.92mm connectors.

Options	Descriptions	Options	Descriptions
1	SMK Female	3	Type N Female
2	SMK Male	4	Type N Male

**Weight:** 1,530 g (6 lbs, 3 oz.) maximum

Connector	DIM A	Connector	DIM A
N Male	22.9 (0.90)	2.92mm Male	14.0 (0.55)
N Female	15.0 (0.59)	2.92mm Female	12.7 (0.50)

# Fixed Coaxial Attenuators

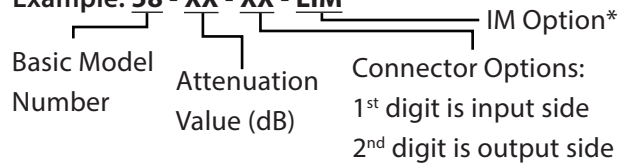
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**250 Watts**

### Model Number Description:

Example: **58 - XX - XX - LIM**



\* Add -LIM for Low Intermodulation option. Option only available with Model 58 in 10, 20, 30, 40 dB.