Fixed Coaxial Attenuators



Model 254

Low Passive Intermodulation

N or SMK Connectors, Convection Cooled

dc to 6.5 GHz 175 Watts







- // Low PIM design
- // Lower profile design
- Quality connectors with special high temperature support beads
- // Rugged construction, free of solder joints.

SPECIFICATIONS

NOMINAL IMPEDANCE: 50 Ω FREQUENCY RANGE: dc to 6.5 GHz

MAXIMUM DEVIATION OVER FREQUENCY:		
Nominal ATTN (dB)	Deviation (dB)	
10, 20, 30	<u>+</u> 1.50	
40	<u>+</u> 2.00	

MAXIMUM SWR:	
Frequency (GHz)	SWR
dc - 2.5	1.10
2.5 - 6.5	1.20

PASSIVE INTERMODULATION (PIM) LEVELS:			
Nominal ATTN (dB)	3rd Order IM Magnitude (IM3)		
10	-120 dBc		
20	-130 dBc		
30	-140 dBc		
40	-150 dBc		

IM3 levels tested with two input signals @ 869 MHz and 891 MHz with average carrier power levels of +43 dBm each.

POWER RATING (mounted horizontally with fins vertical): 175 watts average (unidirectional) to 25°C ambient temperature, derated linearly to 17 watts @ 125°C. 10 kilowatt peak (5 µsec pulse width; 0.9% 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 6.5 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.

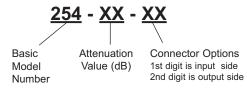
<u>Options</u>	Description	<u>Options</u>	Description
1	SMK Female	3	Type N Female
2	SMK Male	4	Type N Male

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

WEIGHT: Net 1,300 g (2 lbs., 14 oz.) maximum

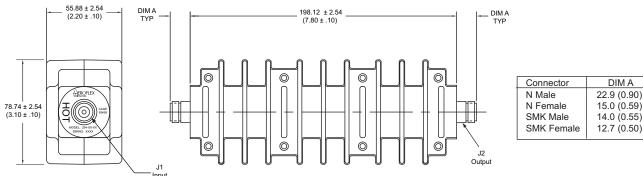
MODEL NUMBER DESCRIPTION:

Example:



Note: Specifications subject to change without notice.

PHYSICAL DIMENSIONS:



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