Fixed Coaxial Attenuators

dc to 2.5 GHz
500 Watts

Model 53
High Power, N Connectors
Conduction/Convection Cooled

TEST DATA: Swept data plots of attenuation and SWR from 50 MHz to 2.5 GHz.

CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

CONSTRUCTION: Aluminum alloy body, gold plated beryllium copper contacts.

WEIGHT: 3,640 g (8 lbs.) maximum

PHYSICAL DIMENSIONS:

Nominal ATTN (dB) Deviation (dB)
3, 6 ± 1.00 53 53 LIM ± 1.20
10, 20, 30, 40 ± 1.00

MAXIMUM DEVIATION OVER FREQUENCY:

3rd ORDER INTERMODULATION (53-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.

POWER RATING (mounted horizontally with fins vertical): 500 watts average (unidirectional) to 25°C ambient temperature, derated linearly to 50 watts @ 125°C. 10 kilowattpeak (5 μsec pulse width; 2.5% duty cycle). Maximum power rating into output port is 50 watts average.

TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C

TEMPERATURE RANGE: -55°C to 125°C

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

MODEL NUMBER DESCRIPTION:

Example:

53 - XX - XX - LIM

*Add -LIM for Low Intermodulation option. Option only available in 10, 20, 30 and 40 dB and is not available through Express.