ATTENUATOR
COAXIAL DC - 6 GHz SMA

DATA SHEET **PART SERIES: 42SXX.00**

FEATURES

- Excellent Attenuation Accuracy
- Low VSWR
- Rugged Construction
- MIL-DTL-3933
- High Reliability

APPLICATIONS

- Amplifier Stabilization
- Improve Matching
- Balance Channels
- Overload Protection
- Set Amplification Gain/Power
- Sample Output Power
- Military

GENERAL DESCRIPTION

Florida RF Labs coaxial attenuators offer excellent attenuation accuracy with extended broadband frequency operation. This series is manufactured with stainless steel body and rugged construction for the most demanding applications.

ORDERING INFORMATION

Part Identifier:

42SXX.00
└ Attenuation Value (dB)

SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance: 50 ohms

Frequency Range: DC - 6.0 GHz

Attenuation Values Available: 0-30 dB (1 dB Increment)

Attenuation Accuracy:

	0 – 10 dB	11 – 20 dB	21 - 30 dB
DC – 6 GHz	± 0.60 dB	± 0.75 dB	± 0.90 dB

Input Power CW: 2 Watts @ 25ºC, Derates linearly to 0% @ 150ºC

Peak Power: 20 Watts (1 µs pulse width, 1% duty cycle)

VSWR:

	0 – 10 dB	11 – 20 dB	21 - 30 dB
DC – 4 GHz	1.15:1 Max	1.15:1 Max	1.15:1 Max
4 – 6 GHz	1.20:1 Max	1.20:1 Max	1.20:1 Max

2.0 ENVIRONMENTAL

Operating Temperature: -55˚C to +150˚C

Non-operating Temperature: -65˚C to +150˚C

Temperature Coefficient: +/-200 PPM / ˚C max

3.0 MARKING

Unit Marking: FRFL, dB Value

4.0 QUALITY ASSURANCE

Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL.

Visual and Mechanical Examination for Conformance to Outline Drawing

Measure Attenuation and VSWR

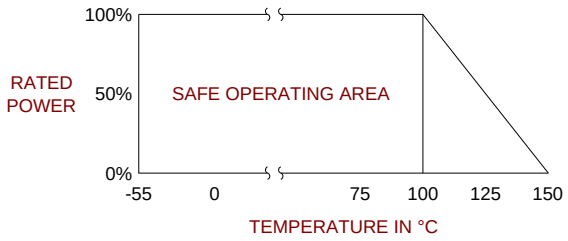
Data Retention – Standard

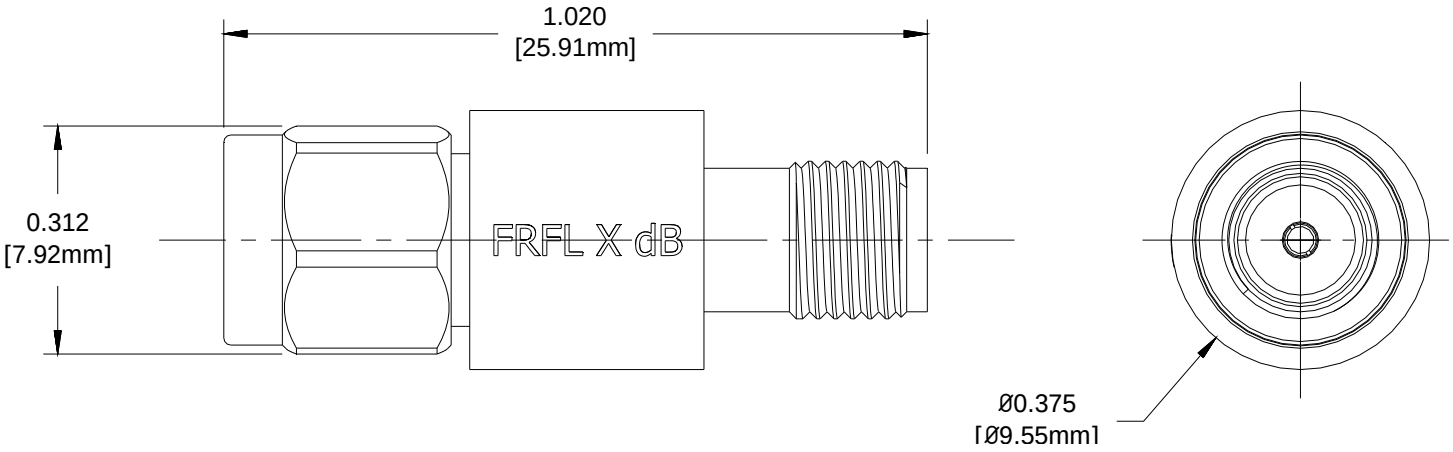
5.0 PACKAGING

Standard Packaging:	Tray Packaging

6.0 MECHANICAL

Body Material / Finish:	Stainless Steel, Nickel Plated
Nut Material / Finish:	Stainless Steel, Passivated
Sleeve Material / Finish:	Brass, Nickel Plated
Center Contact Material / Finish:	Beryllium Copper, Gold Plated
Dielectric:	PTFE
Resistive Element:	Thick Film
SMA Interface:	Female/Male
Torque:	7.0 - 10 in-lbs
Metric Dimensions:	Provided for reference only





Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.02 X.XXX = ± 0.010