

ATTENUATOR COAXIAL DC-18 GHz SMA



DATA SHEET

PART SERIES: 42WXX.XXF

SHEET 1 OF 2
Dwg 1013295

EN 14-1970
Revision B

FEATURES

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

APPLICATIONS

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



GENERAL DESCRIPTION

Florida RF Labs Coaxial Attenuators offer superior attenuation accuracy, with extended broadband frequency operation. This series is manufactured with stainless steel body and rugged construction for the most demanding environments.

ORDERING INFORMATION

Part Identifier:

42WXX.XXF

Attenuation Value

SPECIFICATIONS

1.0 ELECTRICAL

| | |
|-------------------------------|--|
| Nominal Impedance: | 50 ohms |
| Frequency Range: | DC -18 GHz |
| Attenuation Values Available: | See Table 1 |
| Attenuation Accuracy: | See Table 1 |
| Input Power CW: | 2 Watts @ derated linearly from 25 °C to 10% @125°C |
| Peak Power: | 20 Watts (based on 10us pulse width and 1% duty cycle) |
| VSWR: | See Table 1 |

| TABLE 1 ATTENUATION ACCURACY (dB) | | | |
|-----------------------------------|------------|-------------|-------------|
| dB VALUE | | DC – 18 GHz | |
| 0 – 6.0 | | ± 0.3 | |
| 7.0 – 20.0 | | ± 0.5 | |
| 21 - 30 | | ± 0.75 | |
| VSWR (MAX) | | | |
| dB VALUE | DC – 4 GHz | 4-12 GHz | 12 – 18 GHz |
| 0 - 30 | 1.15:1 Max | 1.25:1 Max | 1.35:1 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 |

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3.0 MARKING

Unit Marking: FRFL and part number, legibility and permanency per MIL-STD-130

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

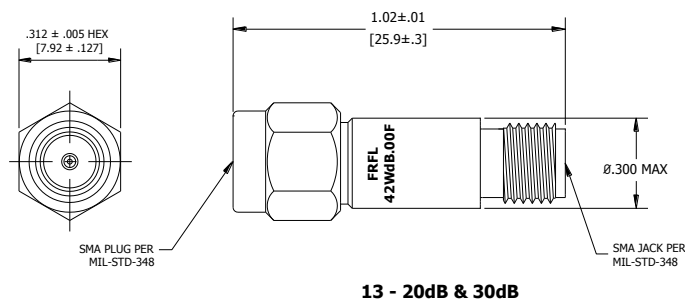
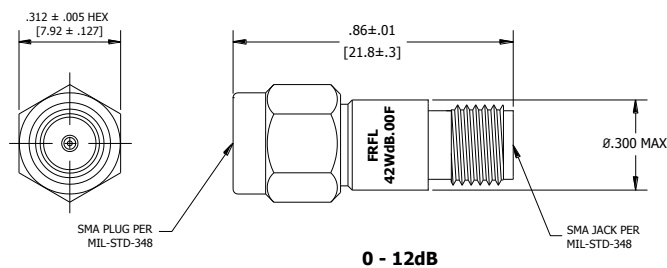
Data Retention – Standard

5.0 PACKAGING

Standard Packaging: Tube

6.0 MECHANICAL

| | |
|--------------------------|-----------------------------|
| Body and Nut Material: | Stainless Steel |
| Body and Nut Finish: | Passivated |
| Center Contact Material: | Beryllium Copper |
| Center Contact Finish: | Gold Plated |
| Dielectric: | Teflon |
| Resistive Element: | Thick Film |
| Torque: | 8 in-lbs maximum |
| Metric Dimensions: | Provided for reference only |



Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.01 X.XXX = ± 0.005