

ATTENUATOR

COAXIAL DC- 26GHz SMA 2 WATT



DATA SHEET

PART SERIES: 42UWXX.XXF

SHEET 1 OF 2
Dwg 1012775

EN 16-1315
Revision A

FEATURES

- Superior Attenuation Accuracy
- Low VSWR
- Rugged Construction
- MIL-DTL-3933
- High Reliability
- DC - 26 GHz
- 0-30 dB Available

APPLICATIONS

- Amplifier Stabilization
- Improve VSWR Between Stages
- Balance Channels
- Overload Protection
- Set Amplification Gain/Power
- Sample Output Power
- Ideal for Space and 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:

42UWXX.XXF

Attenuation Value

SPECIFICATIONS

1.0 ELECTRICAL

- Nominal Impedance: 50 ohms
- Frequency Range: DC – 26 GHz
- Attenuation Values Available: 0 – 30 dB in 1 dB increments
- Attenuation Accuracy: See Table 1
- Input Power CW: 2 Watts @ 25°C derated linearly to 0.5 Watts at 125°C per derating curve.
- Peak Power: 250 Watts max (based on 5us pulse width and 0.05% duty cycle)
- VSWR: See Table 1

| TABLE 1 ATTENUATION ACCURACY (dB) | | | |
|-----------------------------------|--------------|---------------|-------------|
| dB VALUE | | DC – 26 GHz | |
| 0 | | 0 to -0.5 dB | |
| 1-6 | | ± 0.50 dB | |
| 7-12 | | ± 0.60 dB | |
| 15 & 20 | | ± 0.75 dB | |
| 30 | | ± 1.30 dB | |
| VSWR (MAX) | | | |
| DC – 4 GHz | 4 – 12.4 GHz | 12.4 – 18 GHz | 18 – 26 GHz |
| 1.15:1 | 1.25:1 | 1.35:1 | 1.50:1 |

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2.0 ENVIRONMENTAL

| | |
|----------------------------|--------------------------------------|
| Operating Temperature: | -65°C to +125°C |
| Non-operating Temperature: | -65°C to +150°C (In mated condition) |
| Temperature Coefficient: | +/-200 PPM / °C max |

3.0 MARKING

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

4.0 QUALITY ASSURANCE

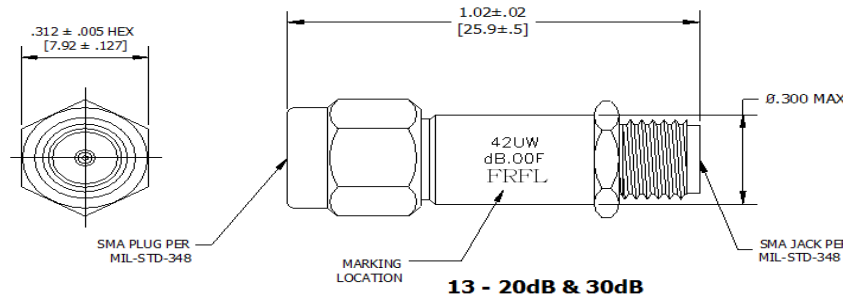
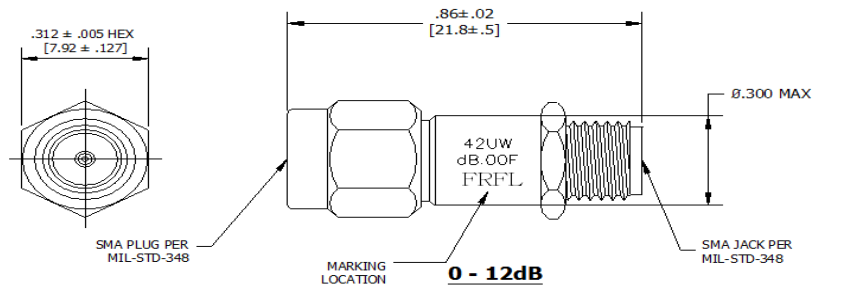
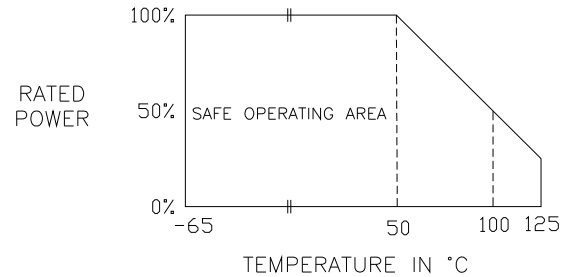
Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL
 Visual and Mechanical Examination for Conformance to Outline Drawing
 Measure Attenuation and VSWR
 Data Retention – Standard

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 = ± 0.030 X.XXX = ± 0.010