

# ATTENUATOR

## COAXIAL DC- 26GHz SMA 2 WATT



DATA SHEET

PART SERIES: 42UWXX.XXF

SHEET 1 OF 2  
Dwg 1012775

EN 14-1970  
Revision -

### 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 heat sink, derated linearly to zero power at 125°C
- Peak Power: 500 Watts (based on 5us pulse width and 1% 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  
Temperature Coefficient: +/-200 PPM / °C max

### 3.0 MARKING

Unit Marking: Logo, dB Value and frequency, legibility and permanency per MIL-STD-130

### 4.0 QUALITY ASSURANCE

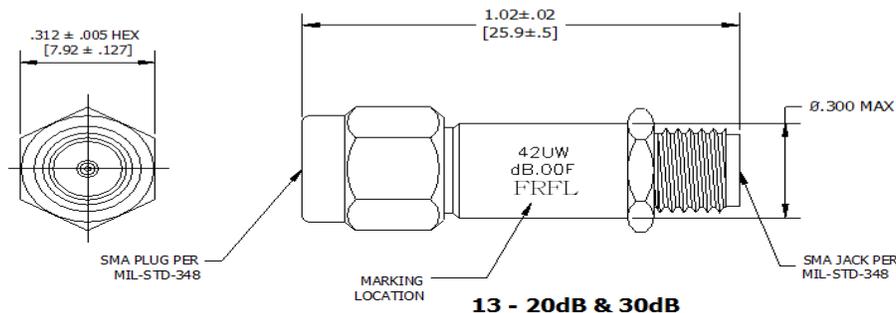
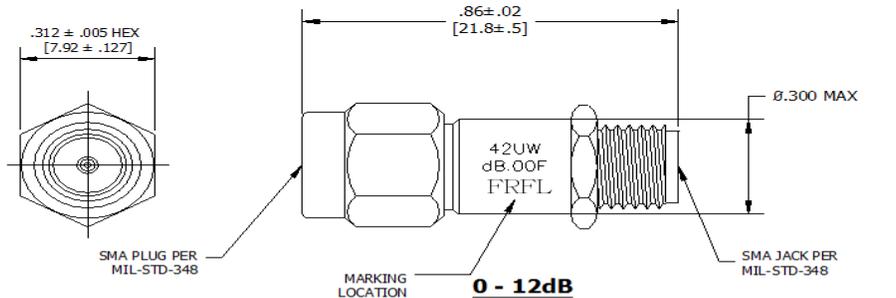
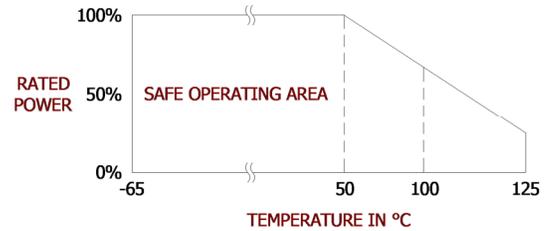
Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL,  
Visual and Mechanical Examination for Conformance to Outline Drawing  
Measure Attenuation and VSWR  
Data Retention – Standard

### 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