## **ATTENUATOR COAXIAL DC-18 GHz SMA**





**DATA SHEET PART SERIES: 42WXX.XXF**  SHEET 1 OF 2

EN 15-1664

### **FEATURES**

MIL-DTL-3933

High Reliability

**Rugged Construction** 

**APPLICATIONS** 

Superior Attenuation Accuracy **Amplifier Stabilization** Low VSWR

Improve VSWR Between Stages

**Balance Channels** Overload Protection

Set Amplification Gain/Power

Sample Output Power

Military



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:



Attenuation Value



### 1.0 ELECTRICAL

Nominal Impedance: 50 ohms DC -18 GHz Frequency Range: 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	4-12.4 GHz	12.4 – 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



smiths microwave Form 423F114

Rev-

Cage Codes: 24602 / 2Y194 Specifications are Subject to Change Without Notice www.emc-rflabs.com • +1 772-286-9300

AS 9100, ISO 9001 and 14001 Certified

# ATTENUATOR COAXIAL DC-18 GHz SMA





DATA SHEET PART SERIES: 42WXX.XXF

SHEET 2 OF 2 Dwg 1013295 EN 15-1664 Revision C

### 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

Contact Contact Material: Parallium Contact

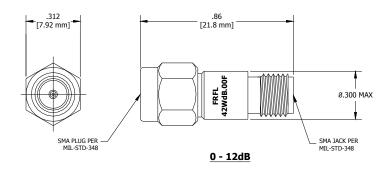
Republicant Contact Material: Parallium Contact

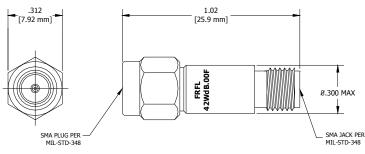
Contact Contact Material: Parallium

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





13 - 20dB & 30dB

Unless Otherwise Specified: TOLERANCE:  $X.XX = \pm 0.03$   $X.XXX = \pm 0.010$