

FEATURES

- DC – 18 GHz
- Superior Attenuation Accuracy
- Low SWR
- Rugged Construction
- High Reliability
- 0-30 dB Available
- Available Design Kits
- Ideal For Space And Military

APPLICATIONS

- Stabilize Amplifiers
- Improve VSWR Between Stages
- Balance Channels
- Protect Inputs From Overload
- Set Amplification Gain/Power
- Sample Output Power



GENERAL DESCRIPTION

The HR42WXX.XXYF series of high performance, precision SMA coaxial fixed attenuators expands EMC Technology's current offering of high reliability products. These coaxial attenuators offer superior attenuation accuracy, with extended broadband frequency operation from DC to 18 GHz. This product is rated for 2 watts of input power with attenuation values from 0 dB to 30 dB. EMC Technology's coaxial attenuators are manufactured with a stainless steel body and standard SMA male/female interface and the rugged construction ensures reliability and continuous performance in the most demanding environments.

SPECIFICATIONS

1.0 ELECTRICAL

- Nominal Impedance: 50 Ω
- Frequency Range: DC – 18 GHz
- Attenuation Value: See Table on Sheet 2
- Attenuation Accuracy: See Table on Sheet 2
- VSWR: See Table on Sheet 2
- Power Rating: 2 Watts
- Operating Temperature: -65 °C To +125 °C

2.0 MECHANICAL

- SMA connector: Passivated Stainless Steel
- Housing: Passivated Stainless Steel
- Resistive element: Thin Film

3.0 UNIT MARKING

EMCT + 42WXX.XXYF

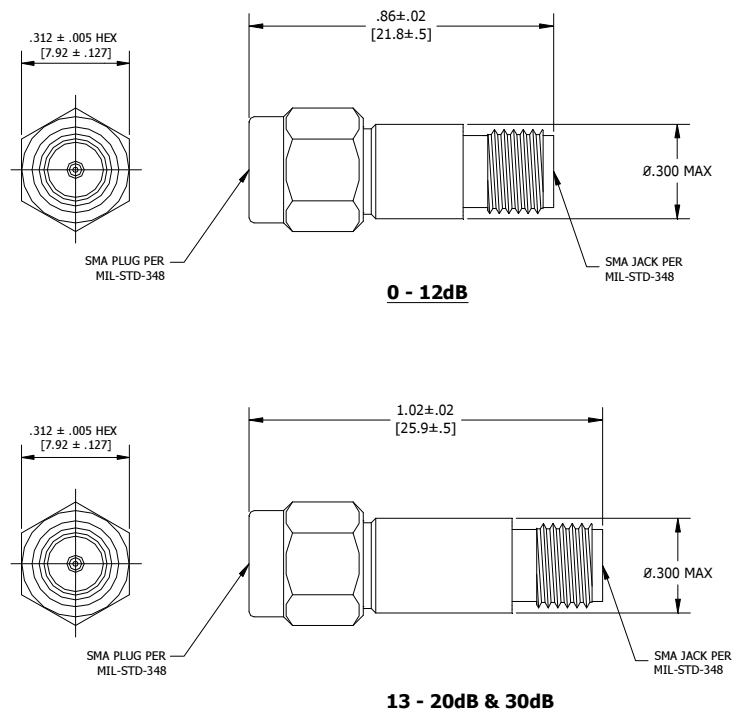
4.0 PACKAGING

- Standard: Tube Packaging
- Optional: Available Upon Request

5.0 PART NUMBERING

- Part Identifier: HR42WXX.XXYF
(XX.XX=dB Y=Test Code)

6.0 MECHANICAL OUTLINE



Note: Specifications are subject to change without notice. TOLERANCE: .XXX ± .005

7.0 QUALITY ASSURANCE

100% Inspection	Per TP-8980
Group A testing	Per TP-8980
Group B testing	Per TP-8980
Group C testing	Per TP-8980
Test data requirements	Serialize data
Test data retention	24 months

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	1.25	1.35