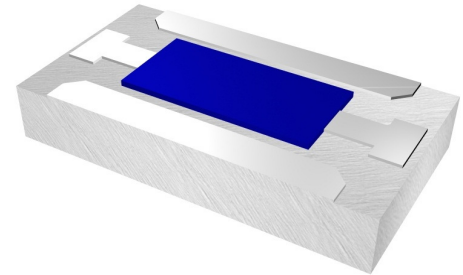


FEATURES

- Ka and Q Band Operating Frequency
- Self-Passivated Tantalum Nitride Film
- Moisture Resistant
- NASA-Approved Low Outgassing
- Surface Mount
- Pick-And-Place Compatibility

APPLICATIONS

- Point-to-Point Radio
- Phased Array Radar
- High Frequency Transceiver
- Instrumentation
- Satellite
- Telemetry



GENERAL DESCRIPTION

EMC Technology's QFA series offers an easy-to-implement surface-mount fixed attenuator solution at 36 to 50 GHz. These attenuators feature a small footprint and are compatible with pick-and-place assembly. QFA attenuators are available in 0 to 10 dB attenuation, in 1-dB increments. With a broad range of operating temperature, -55 to 150°C, QFA attenuators are ideal for applications including point-to-point radio, phased array radar, and high frequency transceivers. Tape-and-reel is the standard packaging for QFA series. High-reliability testing is available.

SPECIFICATIONS

1.0 ELECTRICAL

Frequency Range:
 QFAXX04SMTF 36 - 40 GHz
 QFAXX05SMTF 40 - 50 GHz
 Attenuation Value: 0 to 10 dB (SEE SHEET 2)
 Attenuation Accuracy: ± 0.75 dB
 VSWR: 1.50:1 Max
 Power Rating: 0.2 Watts
 Operating Temperature: -55 °C To +150 °C
 Storage Temperature: -55 °C To +150 °C

2.0 MECHANICAL

Substrate: Alumina
 Resistive Element: Thin-Film Tantalum Nitride
 Termination: Thick-Film Gold
 Termination Plating: Silver

3.0 UNIT MARKING

Attenuation (0 to 10 dB)

4.0 PACKAGING

Standard: Tape and Reel

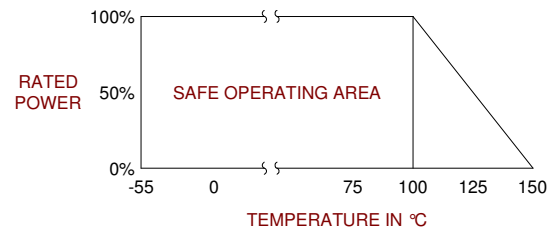
5.0 PART NUMBERING

Part Identifier:

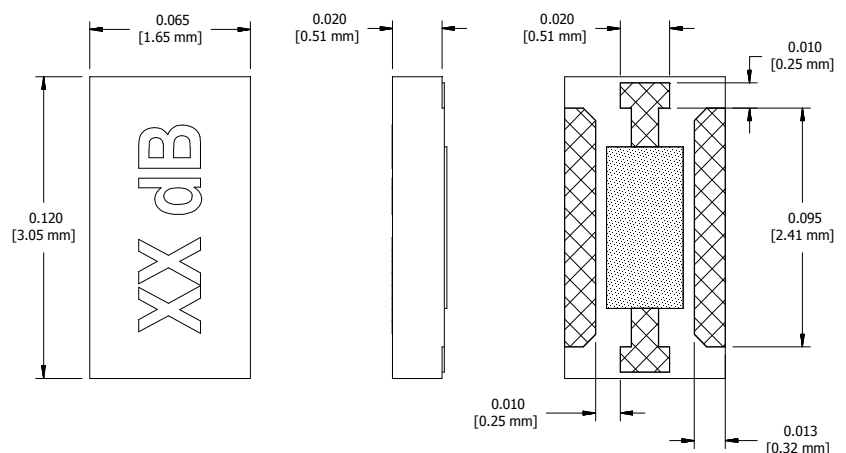
QFAXXXSMTF

Attenuation Value	Frequency Band
0 - 10 dB	04: 36 - 40 GHz
	05: 40 - 50 GHz

POWER RATING AND DERATING



MECHANICAL OUTLINE



Note: Specifications are subject to change without notice.

TOLERANCE: .XXX \pm .005

6.0 AVAILABLE VALUES

dB VALUE	DC RESISTANCE (Ω) QFAXX04SMTF	DC RESISTANCE (Ω) QFAXX05SMTF	TOLERANCE
0.0	CONTINUITY ONLY		
1.0	4.13	4.13	8%
2.0	9.16	13.85	8%
3.0	22.45	24.76	8%
4.0	34.27	35.97	4%
5.0	48.45	44.24	4%
6.0	58.02	50.11	4%
7.0	75.82	60.80	2%
8.0	89.14	71.85	2%
9.0	102.46	82.91	2%
10.0	116.29	96.74	2%

