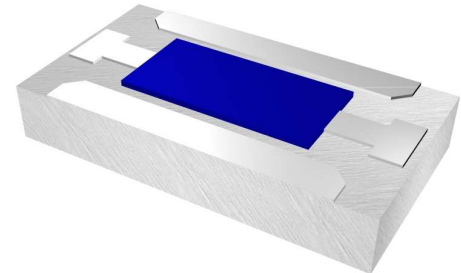


FEATURES

- 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

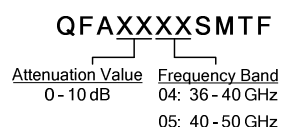
Attenuation (0 to 10 dB)

4.0 PACKAGING

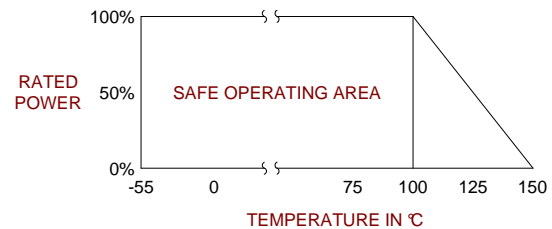
Standard: Tape and Reel

5.0 PART NUMBERING

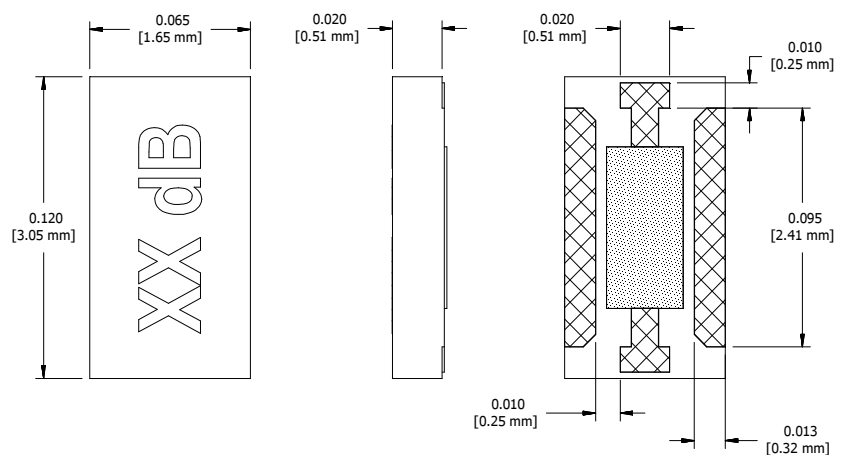
Part Identifier:



POWER RATING AND DERATING



MECHANICAL OUTLINE



Note: Specifications are subject to change without notice.

TOLERANCE: .XXX ± .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%

