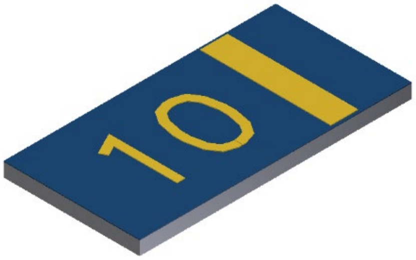
Model XRA10AA10SES

Rev C

Surface Mount Attenuator
10 Watts, 10dB



The XRA10AA10SES is a high performance Aluminum Nitride (AlN) chip attenuator intended as a cost competitive alternative to Beryllium Oxide (BeO). It is designed particularly for LTE and 5G wireless communication frequency bands. The high power handling makes the part ideal for inter-stage matching, directional couplers, and for use in isolators. The attenuator is also RoHS compliant!

Features:

- **RoHS Compliant**
- **10 Watts**
- **Low Cost**
- **DC – 6.0GHz**
- **AlN Ceramic**
- **Non-Nichrome Resistive Element**
- **Low VSWR**
- **100% Tested**

General Specifications

Resistive Element	Thick film
Substrate	AlN Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-55 to +150°C (see de rating chart)

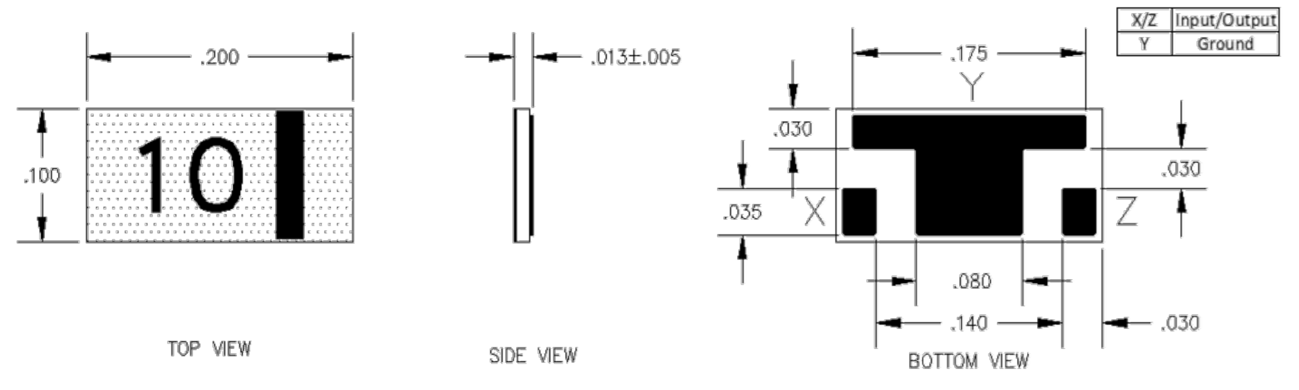
Tolerance is ±0.010”, unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. **All dimensions in inches.**

Electrical Specifications

Attenuation Value:	10dB ± 0.5 dB
Power:	10 Watts
Frequency Range:	DC – 6.0GHz
Input Return Loss:	20dB

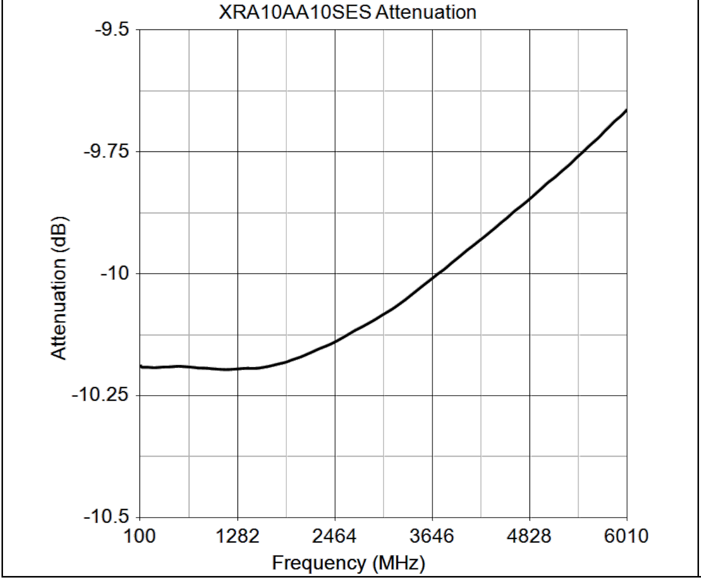
Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

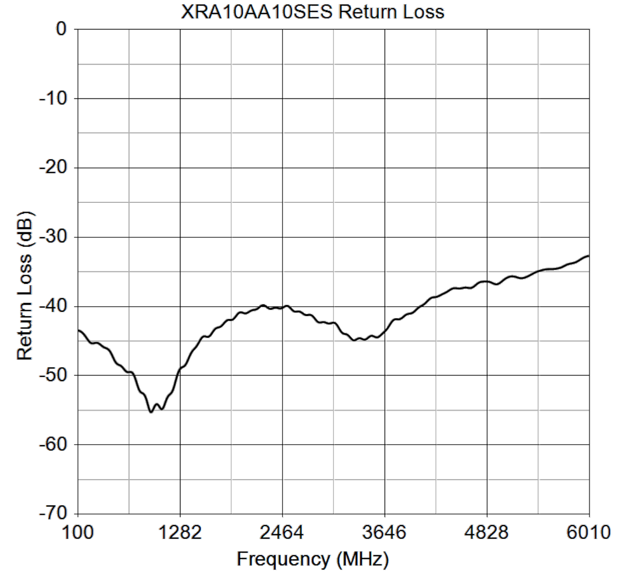
Outline Drawing



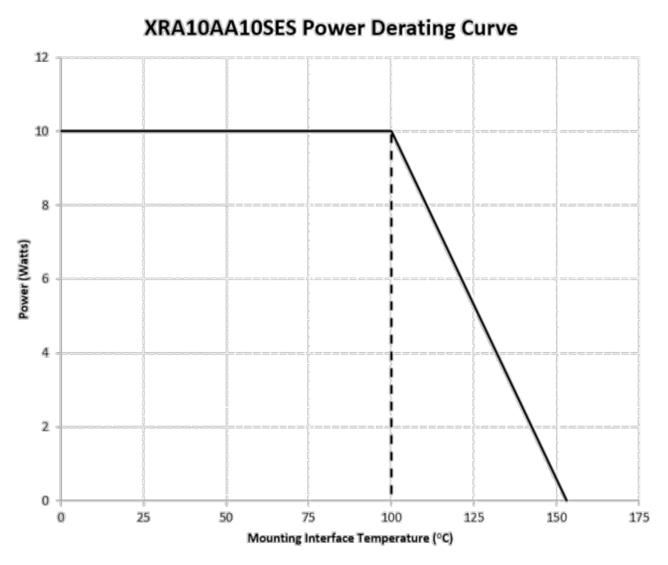
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES

Typical Performance:

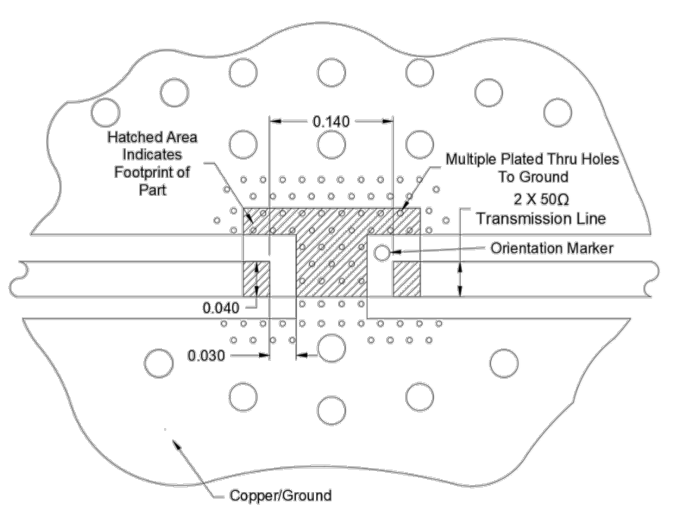




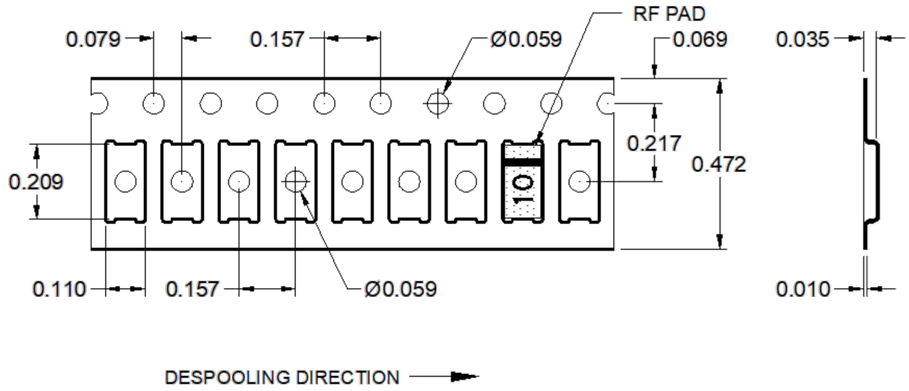
Power De-rating



Mounting Footprint

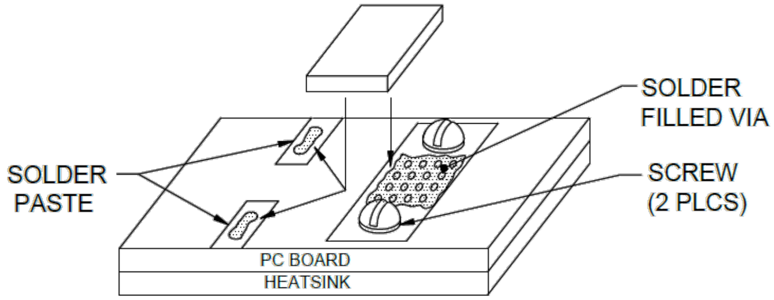


Tape and reel information:



TAPE DETAIL & RF PAD ORIENTATION

Mounting Procedure:



MOUNTING PROCEDURE

1. DRILL THERMAL VIAS THROUGH PCB AND FILL WITH SOLDER, SUCH AS Sn96.
2. SOLDER PART IN PLACE USING Sn96 TYPE SOLDER WITH A CONTROLLED TEMPERATURE IRON (260°C).
3. TO ENSURE GOOD THERMAL CONNECTIVITY TO HEAT SINK, DRILL AND TAP HEATSINK AND MOUNT PCB BOARD TO HEATSINK USING SCREWS.

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