



# Features:

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

# Surface Mount Attenuator 10 Watts, 2dB

The XRA10AA2SES is a high performance Aluminum Nitride (AIN) 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 interstage matching, directional couplers, and for use in isolators. The attenuator is also RoHS compliant!

### **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  $\pm 0.010$ ", unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. **All dimensions in inches.** 

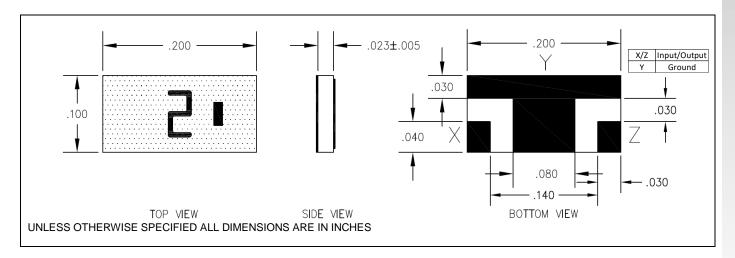
#### **Electrical Specifications**

Attenuation Value: $2.0 \pm 0.3 \text{ dB}$ Power:10 WattsFrequency Range:DC -6.0 GHz

Input Return Loss: 20dB

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

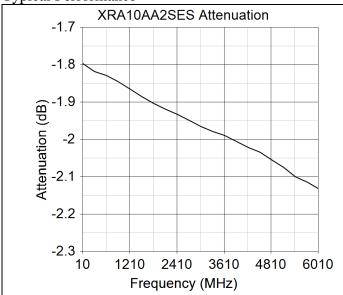
# Outline Drawing

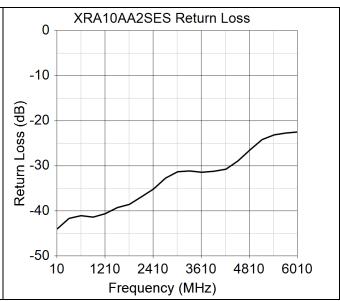




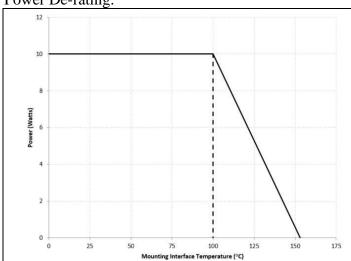


**Typical Performance** 

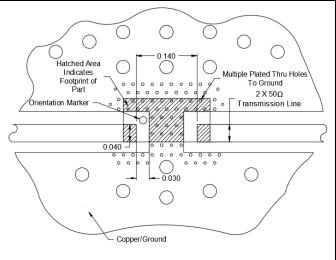




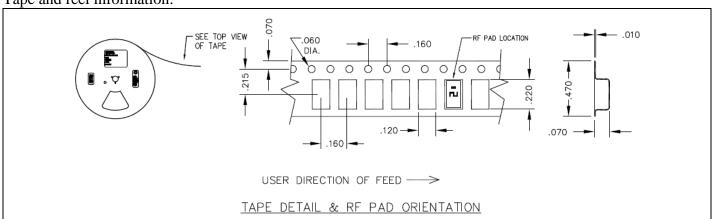
Power De-rating:



Mounting Footprint:



Tape and reel information:

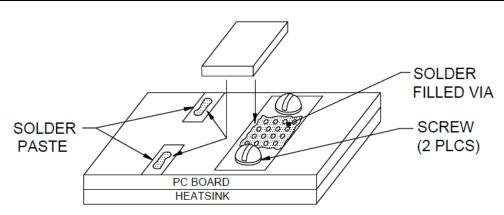


USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392





Mounting Procedure:



# MOUNTING PROCEDURE

- 1. DRILL THERMAL VIAS THROUGH PCB AND FILL WITH SOLDER, SUCH AS Sn96.
- 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.

