

#### **Features:**

- RoHS Compliant
- 30 Watts
- Low Cost
- DC 4.0GHz
- AIN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

# Surface Mount Attenuator 30 Watts, 20dB

The D30NA20Z4 is a high performance Aluminum Nitride (AIN) chip attenuator intended as a cost competitive alternative to Beryllium Oxide (BeO). The attenuator is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. 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!

## **General Specifications**

Resistive Element Thick film

Substrate AlN Ceramic

Terminal Finish Matte Tin over Nickel Barrier

Operating
Temperature
-55 to +200°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: 20.2dB +/- .4dB; DC - 3.0GHz 20.0dB +/- .6db; 3.0 - 4.0GHz

 Power:
 30 Watts

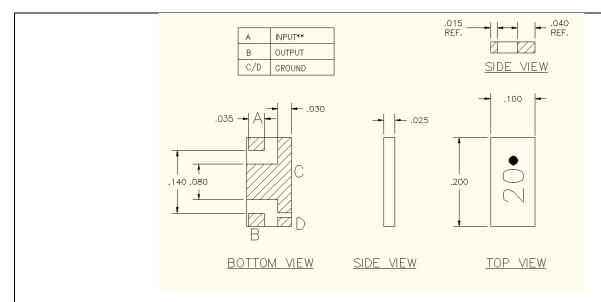
 Frequency Range:
 DC - 4.0GHz

 Input Return Loss:
 20dB DC - 3.0GHz

 16dB 3.0 - 4.0GHz

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

## **Outline Drawing**



\*\* FOR PROPER OPERATION PAD 'A' MUST BE CONNECTED TO THE INPUT UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES

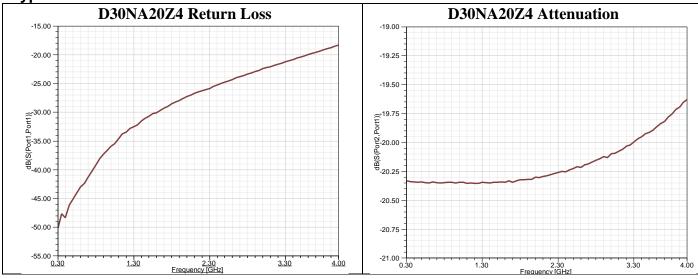
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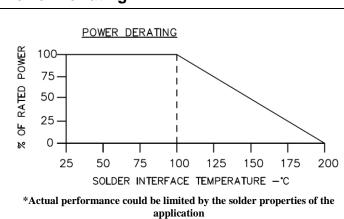
USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392



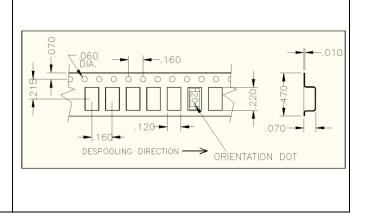
## **Typical Performance:**



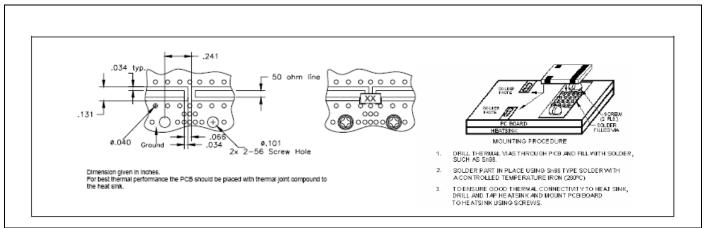
## **Power De-rating:**



Tape and Reel:



## **Mounting Footprint:**



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