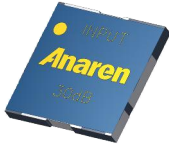


### Surface Mount Attenuator 50 Watts, 30dB



#### Description

The D50AA30Z4A is a high performance Alumina ( $Al_2O_3$ ) Surface mount 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 terminating circulators, and for use in power monitoring. The attenuator is also RoHS compliant!

#### General Specifications

<b>Resistive Element</b>	Thick film
<b>Substrate</b>	$Al_2O_3$ Ceramic
<b>Terminal Finish</b>	Matte Tin over Nickel Barrier
<b>Operating Temperature</b>	-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

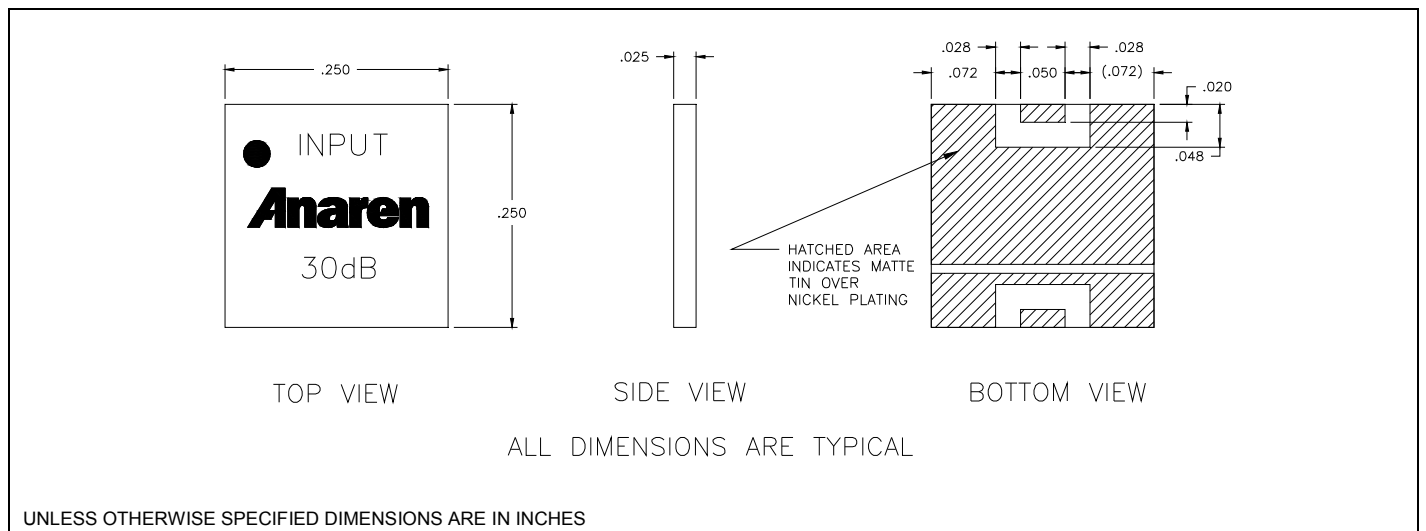
<b>Frequency:</b>	DC - 2.7GHz		
<b>Power:</b>	50W		
<b>Attenuation Value:</b>	30 dB	-0.5dB, +1dB;	DC - 2.0GHz
		-1dB, +1dB;	2.0 – 2.3GHz
		-1.5dB, +1dB;	2.3 - 2.7GHz
<b>Input Return Loss:</b>	$\geq 19.1$ dB	DC – 2.3GHz	
	$\geq 15$ dB	2.3 – 2.7GHz	

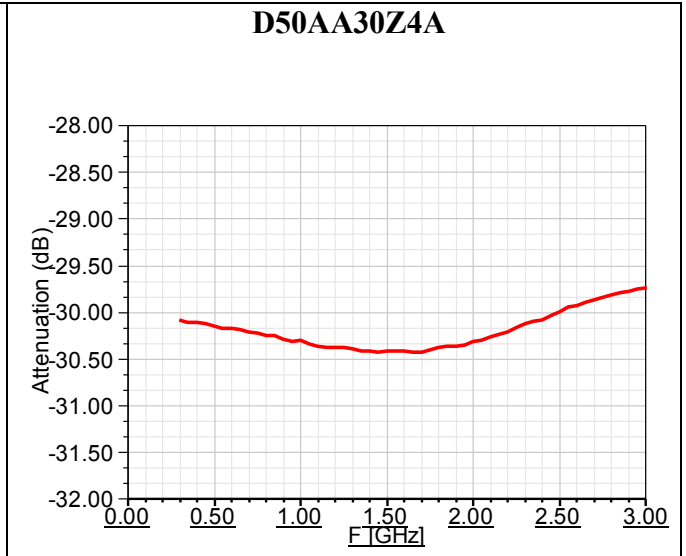
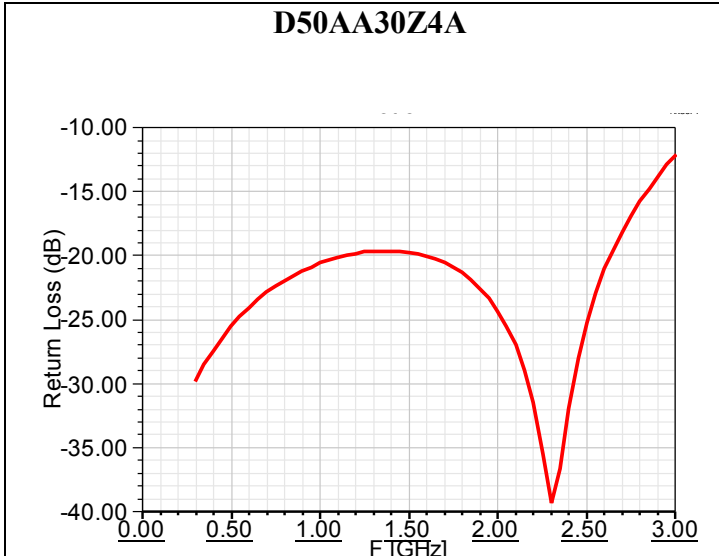
Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

#### Features:

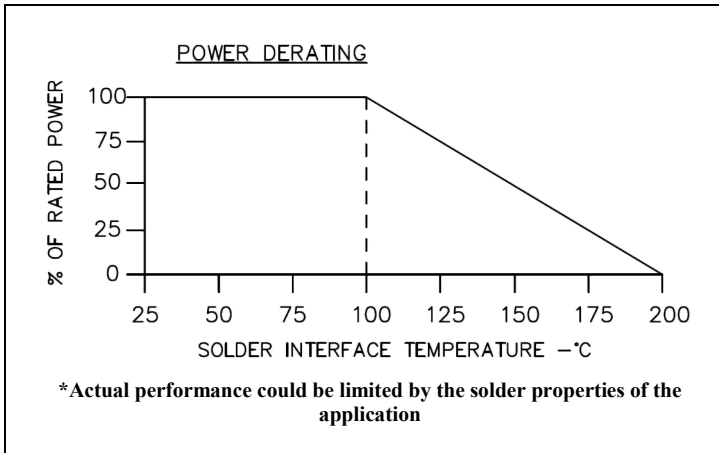
- RoHS Compliant
- 50 Watts
- DC – 2700 MHz
- AlN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

#### Outline Drawing

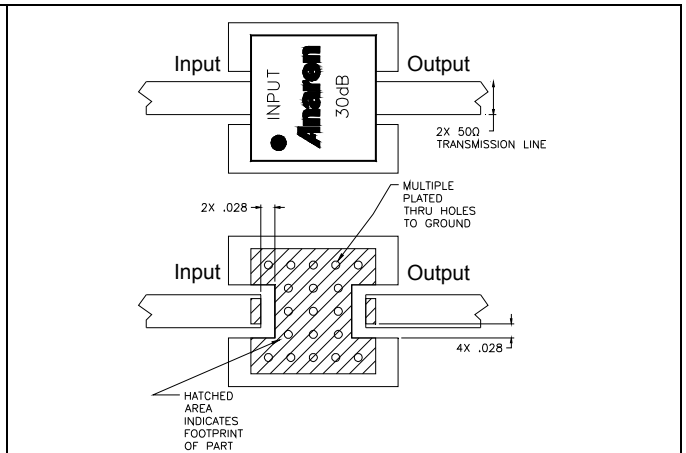




### Power De-rating:



### Mounting Footprint:



### Tape and Reel:

