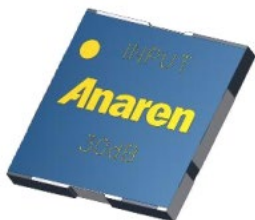


**Surface Mount Attenuator**  
**50 Watts, 30dB**



**Description:**

The D50AA30Z4 is a high performance Alumina ( $\text{Al}_2\text{O}_3$ ) 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!

**Features:**

- RoHS Compliant
- 50 Watts
- DC – 2300 MHz
- AlN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

**General Specifications:**

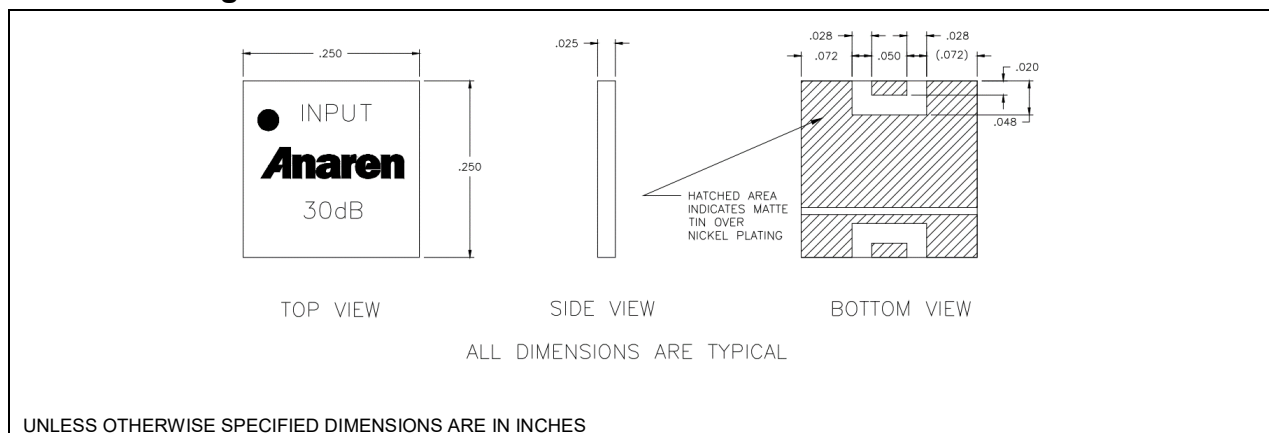
<b>Resistive Element</b>	Thick Film
<b>Substrate</b>	$\text{Al}_2\text{O}_3$ Ceramic
<b>Terminal Finish</b>	Matte Tin over Nickel Barrier
<b>Operating Temperature</b>	-55 to +200°C (see de rating chart)

**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>	≥ 19.1dB	DC – 2.3GHz	
	≥ 15dB	2.3 – 2.7GHz	

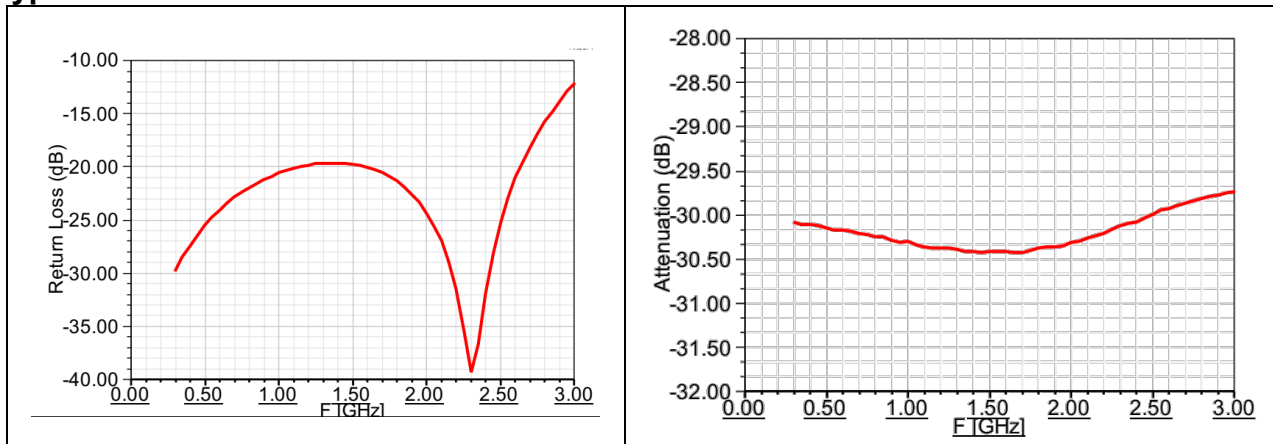
Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

**Outline Drawing:**

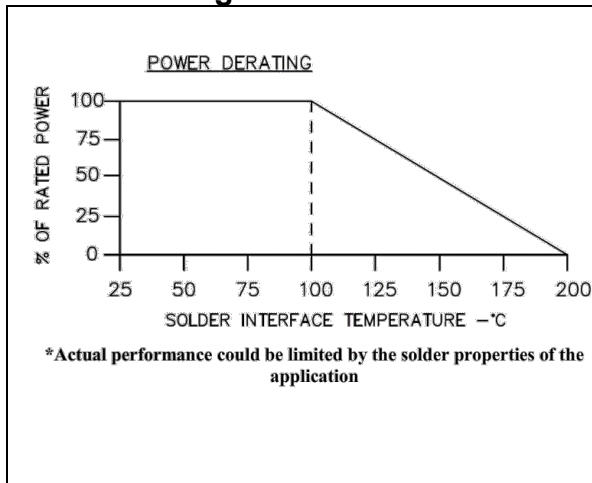


Tolerance is  $\pm 0.010$ ", unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. **All dimensions in inches**

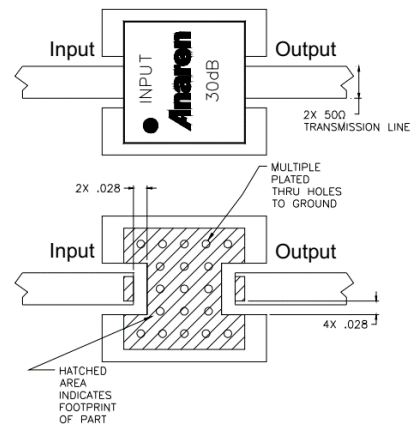
## Typical Performance:



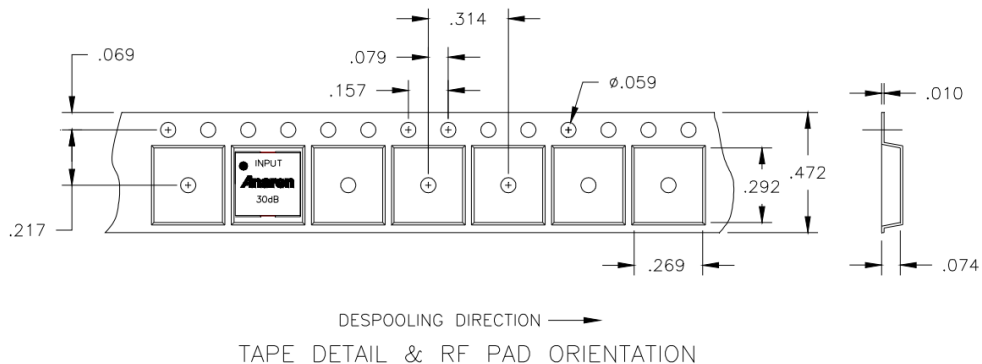
## Power de-rating:



## Mounting Footprint:



## Tape & Reel:



Contact us:  
[rf&s\\_support@ttm.com](mailto:rf&s_support@ttm.com)