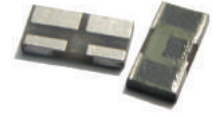


## DIMENSIONS & POWER RATING

Part	Length x Width	Height	5dB ΔT of 50°C	5dB ΔT of 100°C	20dB ΔT of 50°C	20dB ΔT of 100°C
VGX-2010	0.197" x 0.097"	0.035" Max.	45W	90W	35W	70W
VGX-2512	0.248" x 0.125"	0.035" Max.	105W	210W	65W	125W
VGX-3725	0.375" x 0.250"	0.035" Max.	175W	350W	180W	360W
VDX-2010	0.197" x 0.097"	0.020" Max.	80W	155W	60W	120W
VDX-2512	0.248" x 0.125"	0.020" Max.	175W	345W	105W	205W
VDX-3725	0.375" x 0.250"	0.020" Max.	290W	590W	300W	600W



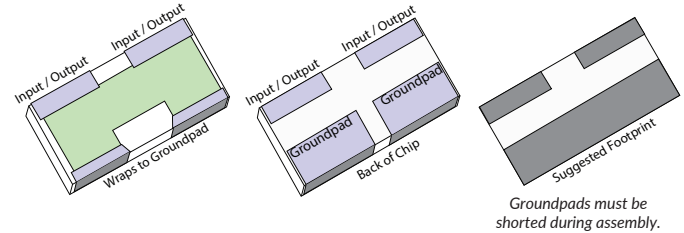
### Attenuation Accuracy

Increment	Accuracy
< 3dB	+/- 0.2dB
3.5 - 13dB	+/- 0.3dB
13.5 - 30dB	+/- 0.5dB

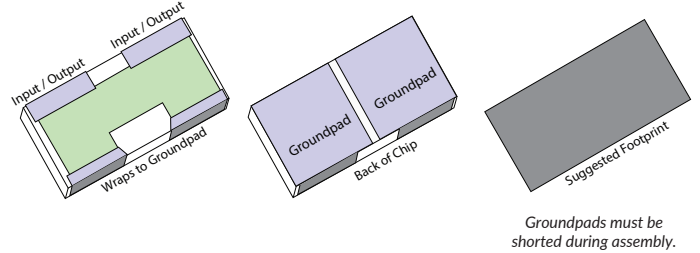
ITEM	SPECIFICATION
Value Range:	0dB, 1dB to 30dB
Standard Impedance:	50Ω Nominal
VSWR (Max)-G 0.025 <sup>1</sup>	2010 - 1.4:1 up to 6.5GHz 2512 - 1.6:1 up to 3.7GHz 3725 - 1.6:1 up to 1.5GHz
VSWR (Max)-D 0.015 <sup>1</sup> <i>(Simulated pending final test)</i>	2010 - 1.4:1 up to 4.0GHz 2512 - 1.6:1 up to 1.7GHz 3725 - 1.6:1 up to 1.0GHz
DC Attenuation Stability: <sup>2</sup>	.001 dB/ dB/ °C
Operating Temperature: <sup>3</sup>	-55°C to 150°C
Nominal Thermal Resistance:	~2.5°C/W (2010), ~0.6°C/W (3725)
Architecture:	Thick Film on Aluminum Nitride
Attachment:	Solder and Epoxy

### Terminal Styles

WA - Full Wraparound



SG - Single Wrap to Ground



1. Mounted in a matched continuous, 50Ω microstrip system. 2. Based on TCR and resistor tolerance at DC. 3. Based on a max power, max film temp. of 150°C and baseplate temp. of 100°C. Consult the factory for other impedances, values, substrate thicknesses, sizes or power levels.

## ORDERING INFORMATION

Prefix for AlN attenuators

**Substrate Thickness**  
D - 0.015" G - 0.025"

**Termination Material**

- 3 PtAg
- 7 Au over PtAu (input) PtAu (ground)
- 8 PtAg ULR
- C PtAg w/ Sn62 Solder
- H PtAg w/ Sn62 Solder ULR
- R PtAg w/ Sn96 Solder ULR

**dB Value**  
ex: 03D5=3.5dB  
Half dB available 1-17 dB range  
ex: 14D0=14.0dB  
Whole dB available 0-30dB range

**Termination Style**  
WA - Wraparound  
SG - Single Wrap to Ground

**Part**  
2010 2512 3725

Packaging: B=Bulk, T=Tape and Reel, W=Waffle  
RoHS Compliant =   
ULR = Ultra Leach Resistant