

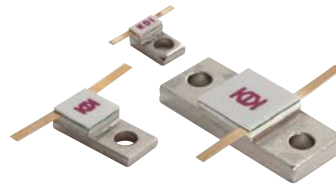
# SERIES PPA ATTENUATORS

## High Power – DC-4GHz

**RoHS  
Compliant**



The Aeroflex/KDI PPA Series of attenuators utilize a Beryllium Oxide chip and thin film technology to provide devices which can dissipate up to 100 watts of R.F. power. The PPA series must be thermally bonded to a heat sink, using the mounting holes provided, in order to operate within the temperature rating indicated. The flange temperatures must not exceed 100°C under rated power conditions.



### ORDERING INFORMATION

The Power Attenuators listed are available in 1 dB increments from 1 thru 20 dB. Specify by selecting any of the series listed and add the attenuation value desired to the basic series designation. (See note 3)

### EXAMPLE:



### GENERAL SPECIFICATIONS

Impedance	50 Ohms
Operating Temp.	-55°C to +150°C
Attenuation Stability	0.0001 dB/dB/°C
Substrate	Beryllium Oxide Ceramic
Resistive Element	Proprietary Thin Film
Flange	Copper, Nickel Plated per QQ-N-290
Tabs	Beryllium Copper, Gold Plated per MIL-G-45204
Cover	Alumina Ceramic

### PERFORMANCE SPECIFICATIONS

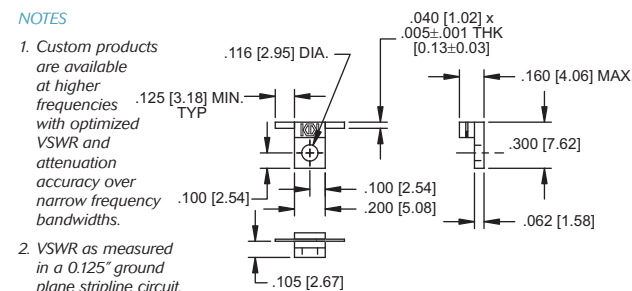
Model	Attenuation <sup>(1)</sup> 1 dB Increments (dB)	Frequency <sup>(1)</sup> Range	Input Power (Watts)	Attenuation Accuracy (1) (dB)	Attenuation Accuracy (1) (dB)			VSWR (Typical) <sup>2</sup>
					DC-1 GHz	1-2.5 GHz	2.5-4 GHz	
PPA 10 11-20	1-20	DC-4 GHz	10	1-10	±0.5 ±1.0	±0.5 ±2.0	±1.0 ±3.0	1.3:1
PPA 20 6-9 10-15 16-20	1-20	DC-4 GHz	20	1-5	±0.5 ±0.5 ±0.75 ±1.0	±0.5 ±0.5 ±1.0 ±2.0	±0.5 ±1.0 ±1.5 ±3.0	1.15:1 – DC-1.0 GHz 1.35:1 – 1.0-2.5 GHz 1.50:1 – 2.5-4.0 GHz
PPA 50	1-20	DC-1 GHz	50		±0.3 DC-500 MHz ±0.5 500 MHz-1 GHz			1.25:1 – DC-500 MHz 1.50:1 – 500 MHz-1 GHz
PPA 100	1-20	DC-500 MHz	100		±0.5			1.25:1 – DC-200 MHz 1.50:1 – 200-500 MHz

### PHYSICAL DIMENSIONS

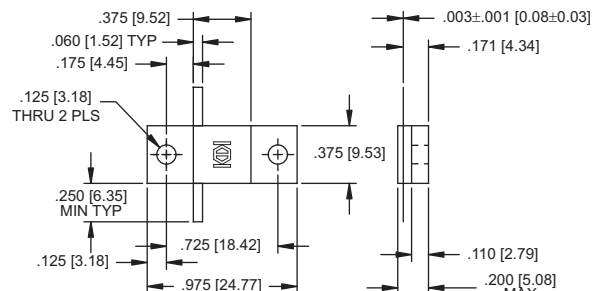
#### NOTES

- Custom products are available at higher frequencies with optimized VSWR and attenuation accuracy over narrow frequency bandwidths.
- VSWR as measured in a 0.125" ground plane stripline circuit.
- Standard values 1, 2, 3, 4, 5, 6, 10, 20 dB.

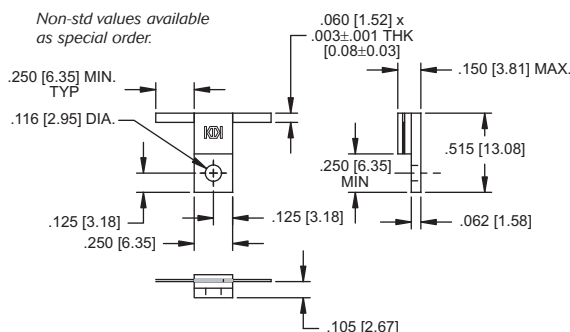
Non-std values available as special order.



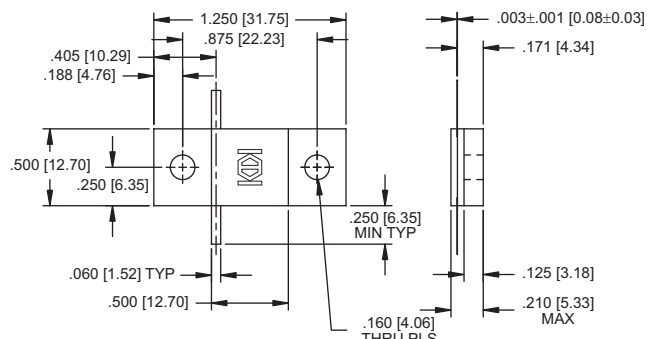
PPA10 OUTLINE



PPA50 OUTLINE



PPA20 OUTLINE



PPA100 OUTLINE

KEY: Inches [Millimeters] .XX ±.03 .XXX ±.010 LX ±0.8 .XX ±0.25]



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