

# Attenuator, Chip

Model PCA3060

Frequency Range: DC to 30.0 GHz  
Power: 1Watt

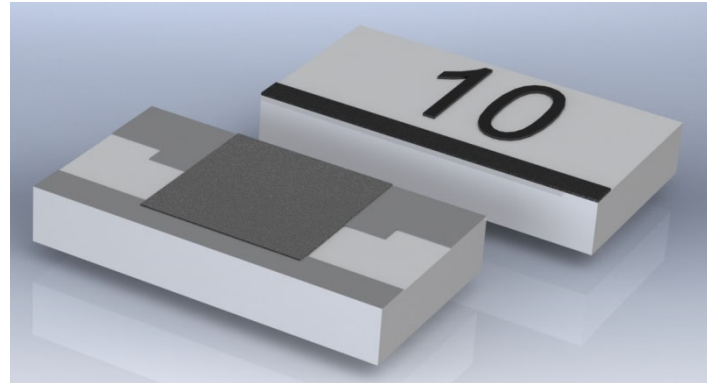
## Features

- Surface Mount (Drop-in or Bond and Wire)
- Thin Film Resistor
- High-frequency Performance

PCA3060 Attenuators are designed to reduce the signal power uniformly at different frequencies, temperatures and power levels. These surface mount Attenuators can be used in amplifier circuits, receivers, up/down converters, phase-matched arrays and switching networks. PCA3060 series are available with tinned lead-free solder terminals as standard, with tin-lead solder and gold as other finish options. Other designs, values and options may be available upon request.

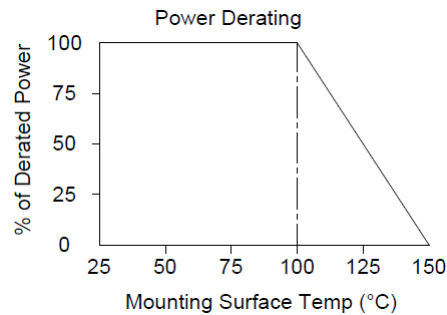
## Technical Specifications

Parameter		Value	
Frequency Range		DC to 30GHz	
Standard dB Values		0 thru 10, 12, 15 & 20dB <i>(in 1dB Increments)</i>	
Atten. Accuracy (dB)			
dB Value	DC – 10GHz	10-23GHz	23-30GHz
0 – 3	±0.5dB	±0.5dB	+1.0/-0.5
4 – 10	±0.5dB	±0.5dB	+1.5/-0.5
12 & 15 dB	±0.5dB	+0.5/-1.0	+0.5/-1.0
20 dB	±0.5dB		+0.5/-2.0
Impedance		50 Ohms	
Power Handling*		1 Watt Avg Max. Derated Linearly to 0 Watts @150°C Max.	
VSWR		DC - 10 GHz	1.20:1 Max.
		10 - 23 GHz	1.30:1 Max.
		23 - 30GHz	1.50:1 Max.
		<i>(1-12dB only)</i>	
Operating Temp. Range		-55°C to +150°C	

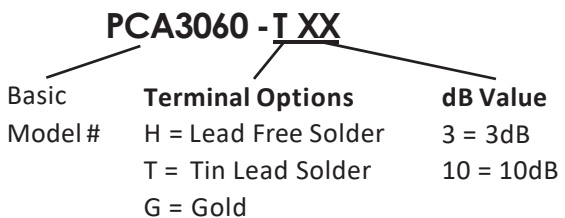


## Material

Feature	Material
Substrate	Alumina
Resistor Material	Proprietary Thin Film
Finish	Lead Free Solder (Standard) <i>See "How to order" for tinning &amp; other finish options</i>



## How to Order



\*Mounting surfaces shall not exceed 100°C. Max. for 100%power rating to apply. See derating curve for mounting surfaces above 100°C.

Design Specifications are Subject to change without notice.

Rev B

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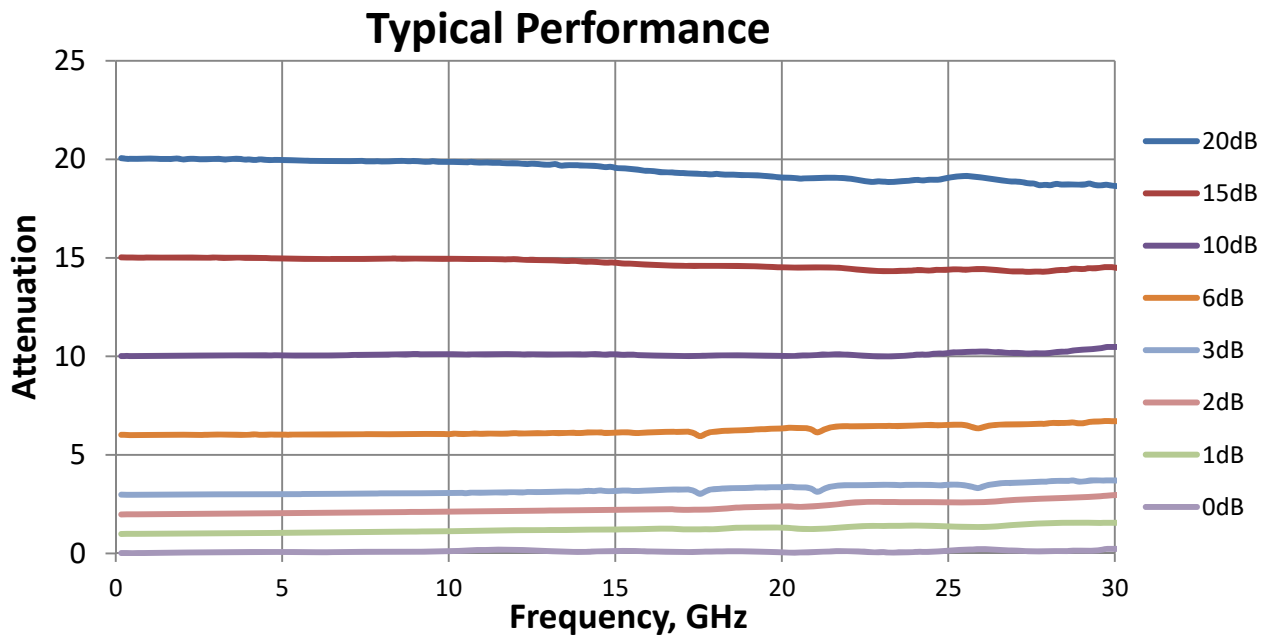
Frequency Range: DC to 30.0 GHz  
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## Order Examples

Model Number: PCA3060-H6  
Lead Free Solder, 6dB

Model Number: PCA3060-T3  
Tin Lead Solder, 3dB

## Performance Characteristics



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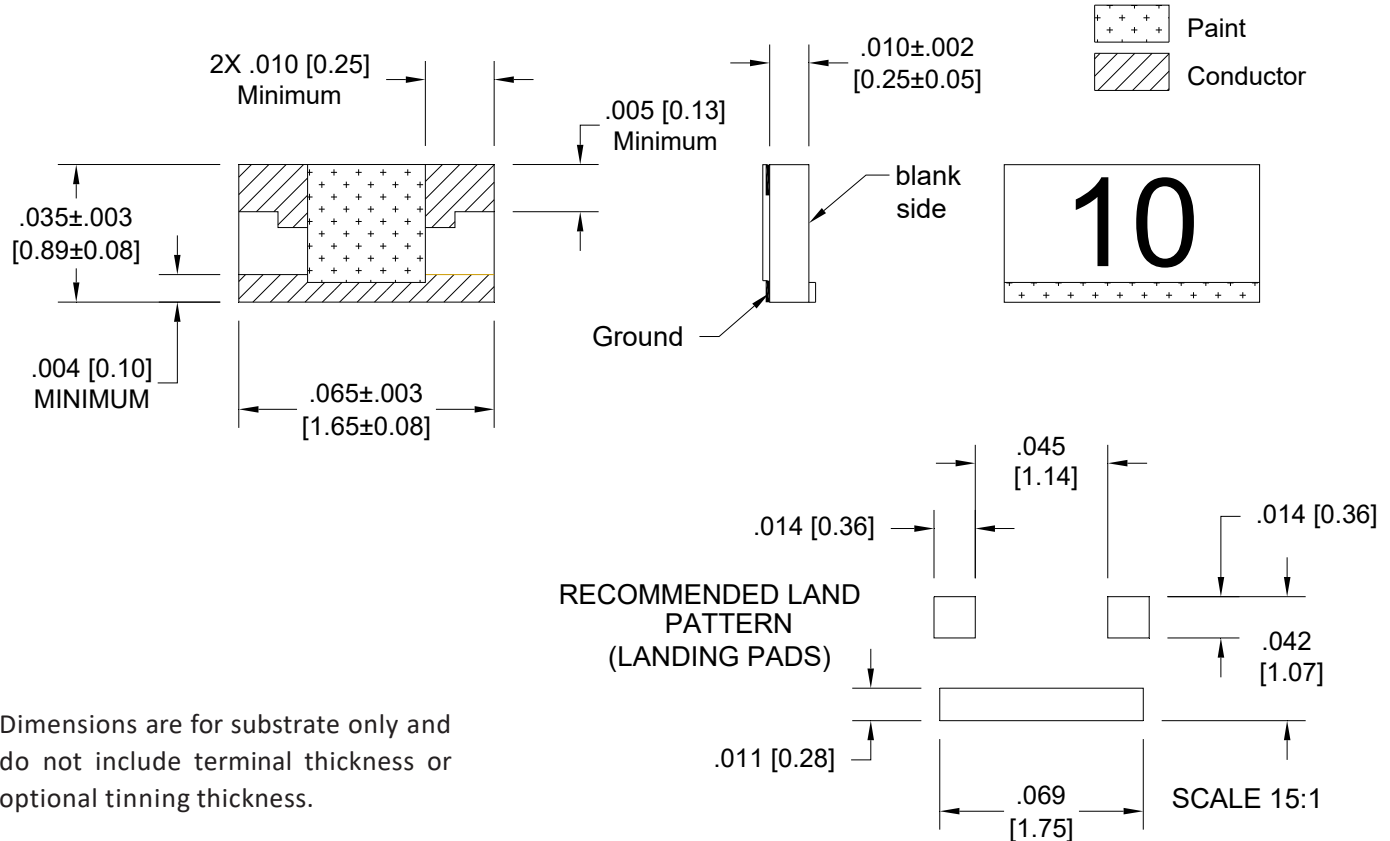
Model PCA3060

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## Physical Dimensions

Model Number: PCA3060-H10 shown

Tolerance: .XXX" = ±.005"



Dimensions are for substrate only and do not include terminal thickness or optional tinning thickness.

**NOTE:** Dimensions in Brackets [ ] are expressed in Millimeters and are for reference only.

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