

LOW POWER ATTENUATORS, CHIP

DC-18 GHz

FEATURES

- Laser Trimmed
- Temperature Stable

GENERAL INFORMATION

The PCA and PCAA Series consists of a laser trimmed distributed thin film element on an alumina ceramic substrate with solderable terminals. Two sizes are available. The PCA size operates to 12.4 GHz and the PCAA size operates to 18.0 GHz. Both sizes are available with leads and wrap around conductors for ease of installation. The PCAF and PCAAF options are designed for "flip-chip" application in lower frequency circuits.

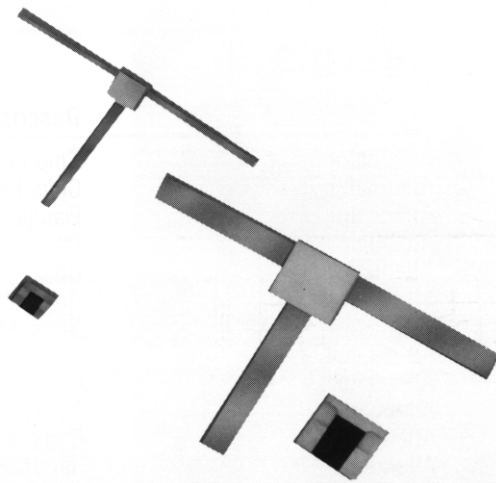
GENERAL SPECIFICATIONS

Impedance:	50 Ohms
Operating Temperature:	-55°C to +150°C
Attenuation Stability:	0.0001 dB/dB/°C

PCA & PCAA SERIES DATA

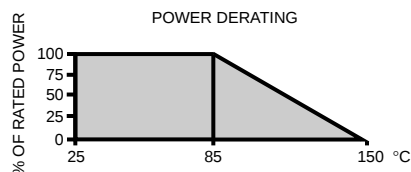
- Substrate: 96% Alumina
- Solderable Terminals: Electroplated Silver over Nickel
- Resistive Element: Proprietary Thin Film
- Wrap around Ground Terminal available, "W" option
- Wrap around-all terminals—"F" option
- Standard values 1, 2, 3, 4, 5, 6, 10, 20 dB
- Non-std. values available as special order

SERIES PCA, PCAA



PERFORMANCE SPECIFICATIONS

Attenuation Increments (dB) Note 1, 4	Attenuation Accuracy (dB) Note 2				VSWR (Maximum) Note 2			
	DC - 4 GHz PCA, PCAA Series	4 - 8 GHz PCA, PCAA Series	8 - 12.4 GHz PCA, PCAA Series	12.4 - 18 GHz PCAA Series Only	DC - 4 GHz PCA, PCAA Series	4 - 8 GHz PCA, PCAA Series	8 - 12.4 GHz PCA, PCAA Series	12.4 - 18 GHz PCAA Series Only
1 - 3	±0.5	±0.5	±0.5	±0.5	1.25	1.35	1.50	1.50
4 - 6	±0.5	±0.5	±0.5	±0.75	1.25	1.35	1.50	1.50
7 - 10	±0.5	±0.5	±0.75	±1.0	1.25	1.35	1.50	1.50
11 - 15	±0.75	+0.5 -3.0	+0.5 -4.0	—	1.25 —	1.35 —	1.50 —	—
16 - 20	±1.0	+0.5 -4.0	—	—	1.25	1.35	—	—



Notes

1. Performance of other dB values vary dependent on attenuation. Contact factory for specifications for fractional dB values.
2. Performance is based on device mounted in matched 50 ohm line.
3. Rated power 1.5 watts input PCA, 100 mw PCAA.

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



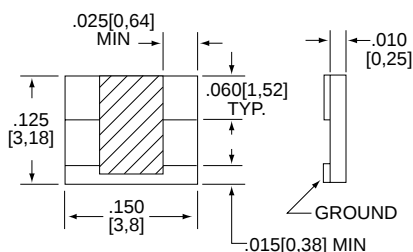
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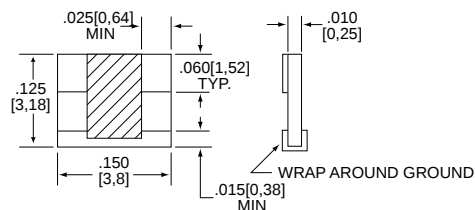
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SERIES PCA, PCAA

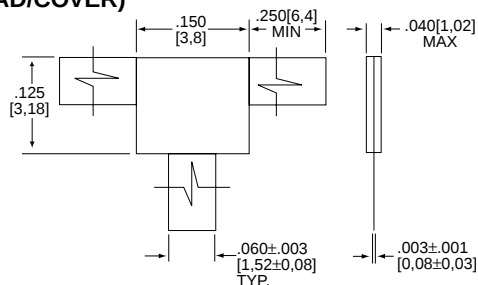
PCA



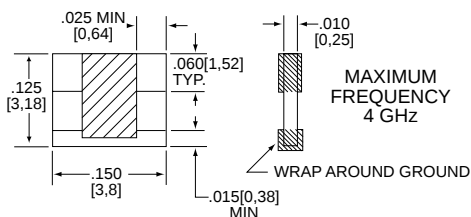
PCAW (WRAP AROUND GROUND TERMINAL ONLY)



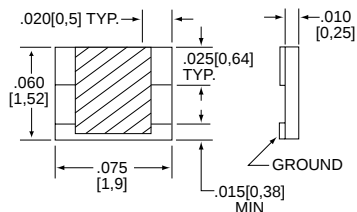
PCAL (LEAD/COVER)



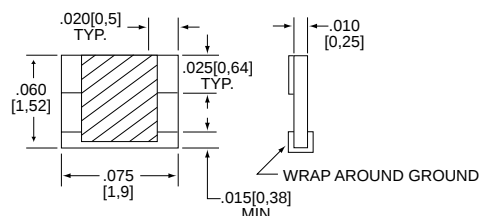
PCAF (WRAP AROUND ALL TERMINALS)



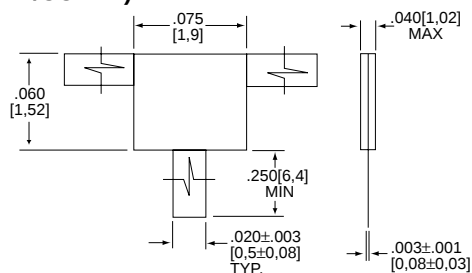
PCAA



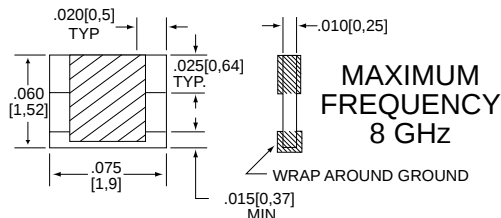
PCAAW (WRAP AROUND GROUND TERMINAL ONLY)



PCAAL (LEAD/COVER)



PCAAF (WRAP AROUND ALL TERMINALS)



ORDERING INFORMATION

The attenuators listed are available in 1 dB increments from 1 through 20 dB. When ordering, to specify the correct part number for the desired attenuation value, select any of the series listed and add the attenuation value desired to the basic series designation.

OPTIONS

- L = Lead/Tab (Gold Plated BeCu)
- W = Wrap around ground only
- F = Wrap around all terminals (flip-chip)
- T = Tinned terminals (any terminal type)
- G = Gold plated chip terminals

EXAMPLE

PCA
or
PCAA — (X) — 3

Basic Series Option(s) Desired dB Value

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



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