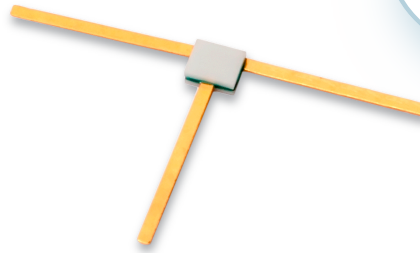


Chip Attenuators

PCAAL Series: DC-18 GHz



The PCAAL Series Chip Attenuators consist of a laser trimmed distributed thin film element on an alumina ceramic substrate with a protective paint layer and solderable leads.



FEATURES

- Gold plated BeCu leads
- SN62 or SN96 pre-tinned leads
- 0-20 dB values
- RoHS Compliant

GENERAL SPECIFICATIONS

Resistive Element: Proprietary Thin Film

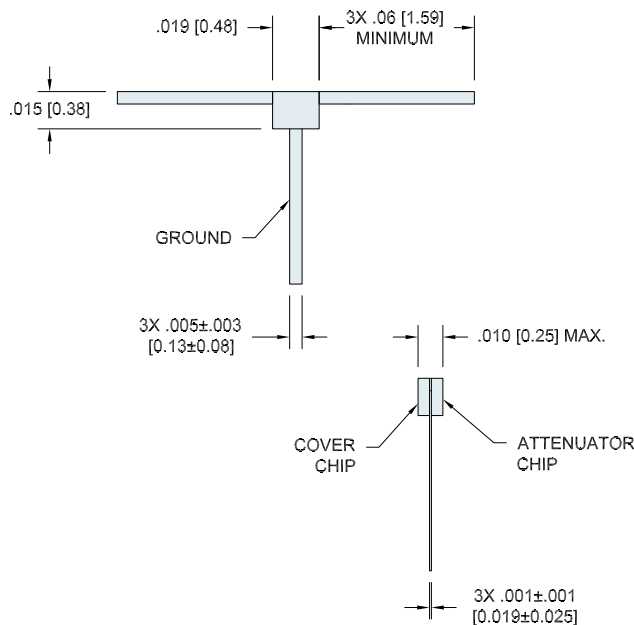
Substrate: Alumina

Terminal Finish: Electroplated Silver over Nickel

Attenuation Stability: ± 0.0001 dB/dB/°C

Operating Temperature Range: -55°C to +150°C

Rated Power¹ (20dB): 750 mW average



ELECTRICAL SPECIFICATIONS

Model Number	dB Value	Attenuation Accuracy ² (dB)				Max VSWR		
		DC-4GHz	4-8GHz	8-12.4GHz	12.4-18GHz	DC-4GHz	4-8GHz	8-18GHz
PCAAL-0	0	+0.5/-0	+0.5/-0	+0.5/-0	+0.5/-0	1.25	1.35	1.50
PCAAL-1	1	±0.5	±0.5	±0.5	±0.5	1.25	1.35	1.50
PCAAL-2	2	±0.5	±0.5	±0.5	±0.5	1.25	1.35	1.50
PCAAL-3	3	±0.5	±0.5	±0.5	±0.5	1.25	1.35	1.50
PCAAL-4	4	±0.5	±0.5	±0.5	±0.75	1.25	1.35	1.50
PCAAL-5	5	±0.5	±0.5	±0.5	±0.75	1.25	1.35	1.50
PCAAL-6	6	±0.5	±0.5	±0.5	±0.75	1.25	1.35	1.50
PCAAL-7	7	±0.5	±0.5	±0.75	±1.00	1.25	1.35	1.50
PCAAL-8	8	±0.5	±0.5	±0.75	±1.00	1.25	1.35	1.50
PCAAL-9	9	±0.5	±0.5	±0.75	±1.00	1.25	1.35	1.50
PCAAL-10	10	±0.5	±0.5	±0.75	±1.00	1.25	1.35	1.50
PCAAL-12	12	±0.75	+0.5/-3	+0.5/-4		1.25	1.35	1.50
PCAAL-15	15	±0.75	+0.5/-3	+0.5/-4		1.25	1.35	1.50
PCAAL-20	20	±1.00	+0.5/-4			1.25	1.35	1.50

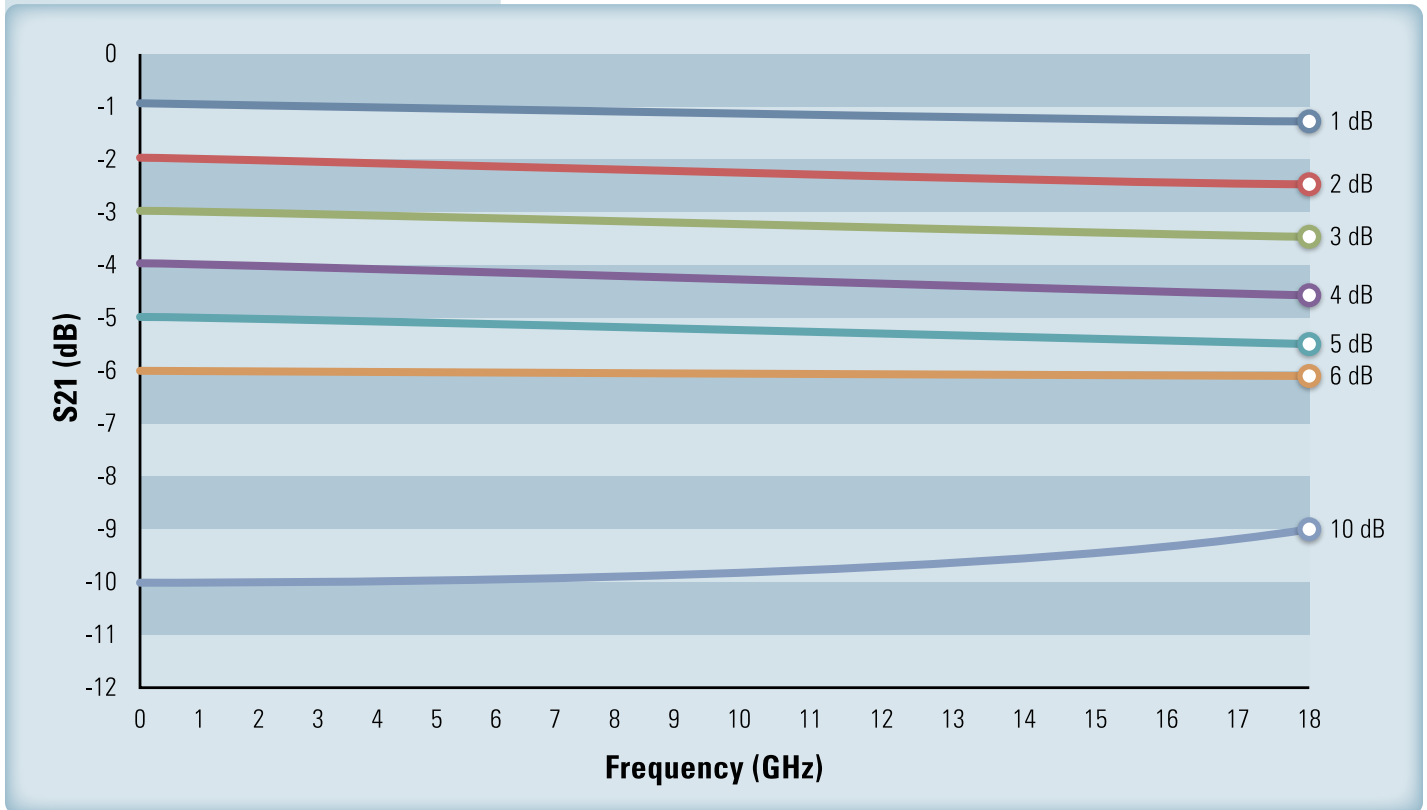
¹Assumes 100° C mounting temperature derated linearly to 0 Watts at 150° C. ²Performance is based on device mounted in matched 50Ω line.

Chip Attenuators

PCAAL Series: DC-18 GHz



ATTENUATION VS. FREQUENCY



ORDERING KEY

Model Number

PCAAL-T3 — dB Value

Terminal Options

- = Gold over BeCu [standard]
- T** = Tin Lead Solder
- H** = Lead Free Solder



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