

Attenuator, Chip

Model TCAF-N05

Features

- Reduced Attenuation at Elevated Temperature.
- · Linear Resistive Design.
- Broadband Operation.

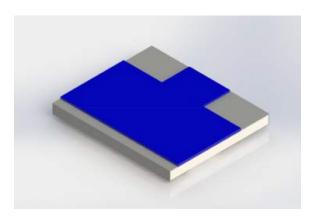
N05 series of temperature variable attenuators are designed to compensate reduction of gain by 0.5dB/dB for a temperature increase from 25°C to 125°C without requiring a bias or control voltage. TCA chip attenuators are manufactured using thick film resistor elements on an alumina ceramic substrate. Full-wrap TCAF chips are designed for surface mount applications and available in various attenuation values and terminal finish options.

Technical Specifications

Parameter			Value		
Frequency Range			DC to 12 GHz		
Impedance			50 Ohms Nominal		
Attenuation Accuracy			Freq (GHz)		
dB Value 1 – 6 dB 7 & 8 dB 9 dB 10 dB	±0.5		±1.0	±1.0	10 - 12 ±0.75 ±1.0 ±1.0 N/A
VSWR (Max)			Freq (GHz)		
<u>dB Value</u> 1 – 8 dB 9 dB 10 dB	1.35:1 1.35:1	1.35:1		1.50:1	10 - 12 1.50:1 1.50:1 N/A
Temperature Coefficient of Attenuation			-0.005 dB/dB/°C		
Temperature Coefficient Tolerance			±0.001 dB/dB/°C		
Operating Temp. Range			-55°C to +150°C		

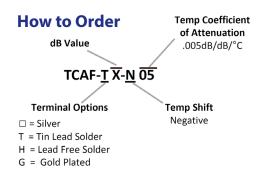
^{*}Performance is based on device mounted in matched 50 Ω line.

Frequency Range: DC to 12 GHz Power: 2 Watts



Material

Feature	Material		
Substrate	Alumina		
Resistor Material	Proprietary Thick Film		
Terminal Finish	Silver – (See "How to Order" for tinning & other options)		



Order Examples

Model Number: TCAF-3-N05 Silver Terminals, 3dB

Model Number: TCAF-T2-N05

Tin lead solder Terminals, 2dB

^{**}Mounting surfaces shall not exceed 100°C. Max.

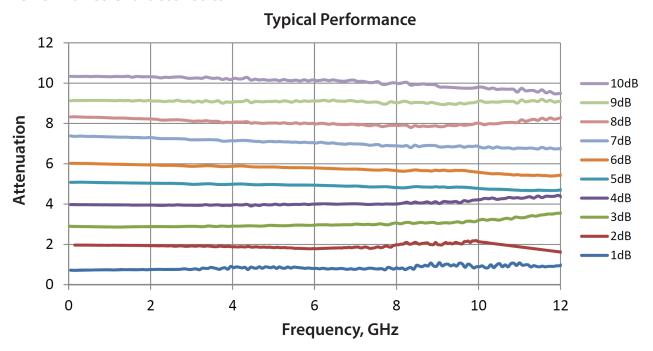


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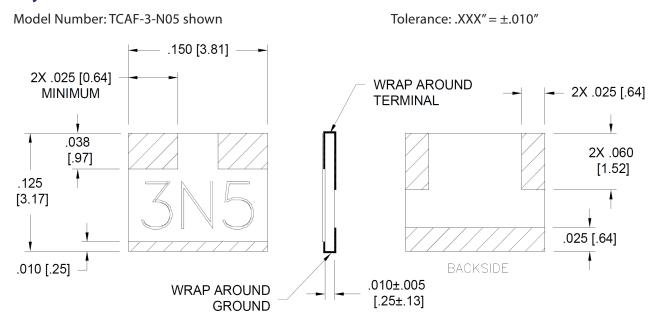
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Performance Characteristics



Physical Dimensions



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