



State of the Art, Inc.

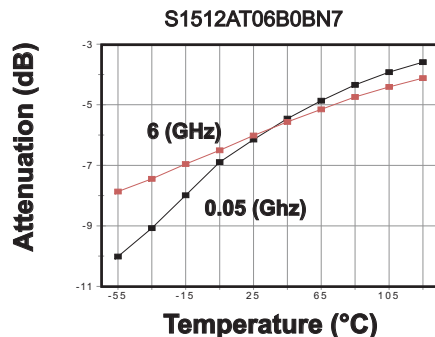
1512 Temperature Variable Attenuator

Top Surface Terminations

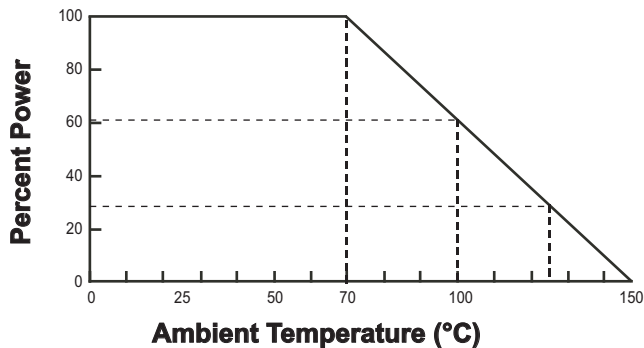
PERFORMANCE CHARACTERISTICS

Attenuation	1,2,3,4,6,10 dB
Temperature Coefficient (TCA)	-0.003, -0.007, -0.009 dB/dB/°C
Impedance	50 ohm nominal
Frequency Range	DC to 6 GHz
Attenuation Accuracy @ 25°C	± 0.5 dB @ 1GHz
TCA Accuracy	± 0.001 dB/dB/°C
VSWR	1.3:1 max @ 1GHz
Power Rating	500 mW (2W with 50 ohm load)
Operating Temperature	< 150°C

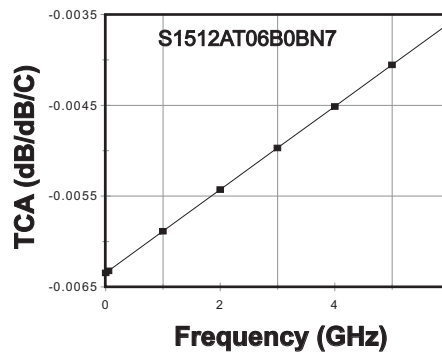
TEMPERATURE PERFORMANCE



POWER DERATING



FREQUENCY PERFORMANCE



PART NUMBERING

S 1512 A T 10B0 B N7 -W

PACKAGING CODE: -TR: Tape & Reel -W: Waffle Carrier (Default packaging is Bulk)

TEMPERATURE COEFFICIENT:
N: Negative slope 3: 0.003 7: 0.007 9: 0.009 dB/dB/°C

TERMINATION FINISH: B: Sn60 over nickel barrier, W: wirebondable gold

VALUE CODE:
Three or Four digits are used to express the attenuation value. The letter "B" is used to represent the decimal. Example: 10B0 = 10 dB.

PRODUCT DESIGNATION: T: Temperature Variable Attenuator

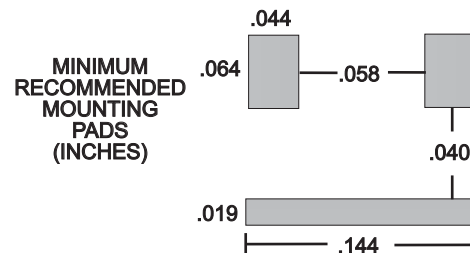
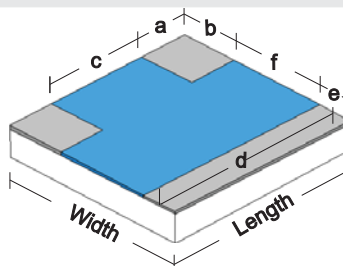
TERMINATION TYPE: A: Top Surface Termination

SIZE CODE

GRADE: S: Standard Production H: High Reliability (For screening options, contact the factory)

MECHANICAL

	INCHES	MILLIMETERS
Length	.150 (.148 - .156)	3.81 (3.76 - 3.96)
Width	.125 (.123 - .131)	3.18 (3.12 - 3.33)
Thickness	.018 (.015 - .023)	0.46 (0.38 - 0.58)
I/O Length (a)	.040 (.035 - .045)	1.02 (0.89 - 1.14)
I/O Width (b)	.060 (.055 - .065)	1.52 (1.40 - 1.65)
I/O Gap (c)	.064 (.060 - .068)	1.63 (1.52 - 1.73)
Ground Length (d)	.138 (.135 - .150)	3.51 (3.43 - 3.81)
Ground Width (e)	.013 (.008 - .018)	0.33 (0.20 - 0.46)
I/O Ground Gap (f)	.047 (.043 - .051)	1.19 (1.09 - 1.30)
Approx. Weight	.020 grams	



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 www.resistor.com All products made in the USA Cage Code : 56235

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