



Precision chip attenuators

■ PAT series, RAT series

Features

- Excellent noise characteristics, small stray/parasitic inductance and capacitance
- Excellent high frequency characteristics
- PAT0510S are the smallest and lightest thin film chip attenuators.

Applications

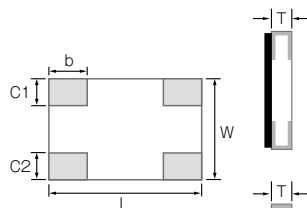
- Wireless communication devices, wireless communication modules, etc.

Specifications

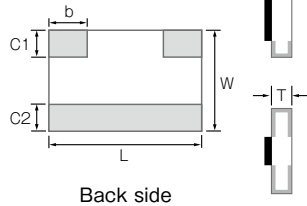
* All made to order.

Dimensions

PAT0510S
PAT3042S (50Ω)
PAT3042S (75Ω)



PAT0816
PAT1220
PAT1632



Back side

Dimension (mm)	PAT0510S (0402)	PAT0816 (0603)	PAT1220 (0805)	PAT1632 (1206)	PAT3042S (50Ω) (1712)	PAT3042S (75Ω) (1712)
L	1.00±0.05	1.60±0.10	2.00±0.10	3.20±0.20	4.20±0.20	4.20±0.20
W	0.50±0.05	0.80±0.10	1.25±0.10	1.60±0.20	3.00±0.20	3.00±0.20
T	0.34±0.05	0.40±0.10	0.40±0.10	0.40±0.10	0.80±0.15	0.80±0.15
b	0.27±0.05	0.50±0.15	0.60±0.20	1.00±0.20	0.50±0.20	0.30±0.20
C1	0.12±0.04	0.20±0.10	0.35±0.20	0.40±0.20	0.95±0.20	0.55±0.20
C2	0.12±0.04	0.20±0.10	0.35±0.20	0.40±0.20	0.90±0.20	0.60±0.20

Electrical characteristics

Series name	PAT0510S			PAT0816			PAT1220	PAT1632		PAT3042S	
Attenuation	0 ~ 3dB	4 ~ 7dB	8 ~ 10dB	0 ~ 3dB	4 ~ 7dB	8 ~ 10dB	0 ~ 10dB	0 ~ 10dB	16dB	0 ~ 10dB	16, 20dB
Attenuation tolerance	±0.3dB	±0.5dB	±1.0dB	±0.3dB	±0.5dB	±0.7dB	±0.3dB	±0.3dB	±0.5dB	±0.3dB	±0.5dB
Impedance	50Ω (C)			50Ω (C)			50Ω (C)		50Ω (C), 75Ω (D)		
VSWR	<1.3			<1.3 (~6GHz), <1.5 (6 ~ 10GHz)			<1.3	<1.3		<1.2 (50Ω), <1.3 (75Ω)	
Operating frequency	DC ~ 10GHz			DC ~ 10GHz			DC ~ 3GHz		~ 3GHz (50Ω), ~ 2GHz (75Ω)		
Rated power	32mW			63mW			100mW	125mW		250mW	
Rated operating temperature	70℃										
Operating temperature	-55℃ ~ +125℃										
Packaging	10,000pcs/reel (T10)			5,000pcs/reel (T)			100pcs/bag 1,000pcs/reel (T1) , 5,000pcs/reel (T5)		50pcs/bag 2,000pcs/reel (T2)		

- Contact us for 1.0 x 0.5mm GBA type PAT0510.
- Contact us for high power attenuators up to 10W.

Part numbering system

PAT 1632 - C - 3dB - T (5)

T=Tape, B=Bulk () - indicates taping quantity. Refer to packaging in the table above.

Attenuation Rectangular Corner

Impedance

Size, circuitry Attenuation

Product code

〈OLD P/N〉 **RAT 1010X - 3dB - C - B**