



Precision chip attenuators

PAT 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.



Part numbering system

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

Series code

Size, circuitry : PAT0510S, PAT0816
PAT1220, PAT1632, PAT3042S

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

Attenuation

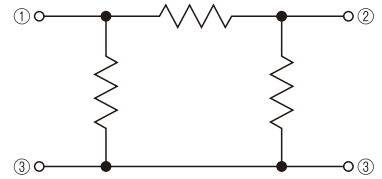
Impedance

Electrical Specification

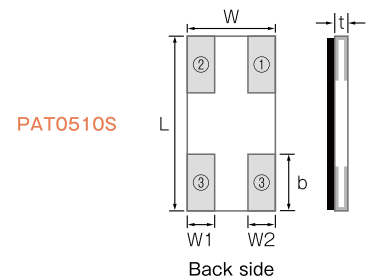
Series name	PAT0510S			PAT0816			PAT 1220	PAT1632		PAT3042S	
Attenuation	0~3dB	4~7dB	8~10dB	0~3dB	4~7dB	8~10dB	0~10dB	0~10dB	16dB	0~10dB	16, 20dB
Attenuation tolerance	±0.3dB	±0.5dB	±1.0dB	±0.3dB	±0.5dB	±0.7dB	±0.3dB	±0.3dB	±0.5dB	±0.3dB	±0.5dB
Impedance	50Ω(C)			50Ω(C)				50Ω(C)		50Ω(C), 75Ω(D)	
V S W R	＜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/ 袋 1,000pcs/reel (T1), 5,000pcs/reel (T5)		50pcs/ 袋 2,000pcs/reel (T2)	

- Contact us for 1.0 x0.5mm GBA type PAT0510
- Contact us for high power attenuators up to 10W

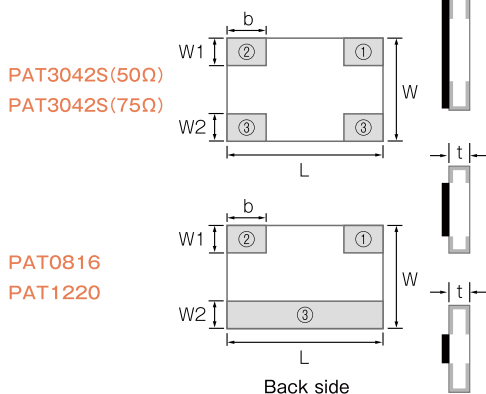
Equivalent circuits



Dimensions



Dimensions



Type	Size (inch)	L	W	t	b	W1	W2
PAT0510S	0402	1.00±0.05	0.50±0.05	0.34±0.05	0.27±0.05	0.12±0.04	0.12±0.04
PAT0816	0603	1.60±0.10	0.80±0.10	0.40±0.10	0.50±0.15	0.20±0.10	0.20±0.10
PAT1220	0805	2.00±0.10	1.25±0.10	0.40±0.10	0.60±0.20	0.35±0.20	0.35±0.20
PAT1632	1206	3.20±0.20	1.60±0.20	0.40±0.10	1.00±0.20	0.40±0.20	0.40±0.20
PAT3042S	1712 (50Ω)	4.20±0.20	3.00±0.20	0.80±0.15	0.50±0.20	0.95±0.20	0.90±0.20
PAT3042S	1712 (75Ω)	4.20±0.20	3.00±0.20	0.80±0.15	0.30±0.20	0.55±0.20	0.60±0.20

(unit : mm)