

PAT series, RAT series, high-precision chip attenuators



These 3042, 1632, 1220, 1010 and 0510 size chip attenuators exhibit excellent high frequency characteristics. The surface mount package is ideal for low noise, low inductance and parasitic capacitance applications. Thin film metalization provides for very stable characteristics over temperature and time.

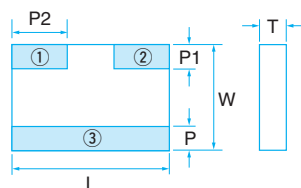
NEW Smallest in the market

PAT0510S, Thin-film chip attenuator that is the smallest and lightest in the market.

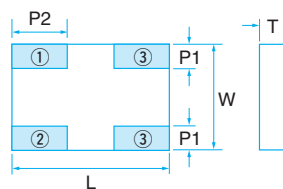


SPECIFICATIONS

Mechanical



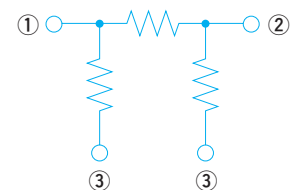
RAT1010X, PAT1220, PAT1632, PAT3042S(C)



PAT0510S

Dimension (mm)	RAT1010X	PAT0510S	PAT0816 NEW	PAT1220	PAT1632	PAT3042S(C)
L	1.00±0.05	1.00±0.05	1.60±0.20	2.00±0.10	3.20±0.20	4.20±0.20
W	1.00±0.05	0.50±0.05	0.80±0.20	1.25±0.10	1.60±0.20	3.00±0.20
P	0.15±0.10	—	0.80±0.20	0.40±0.20	0.40±0.25	0.80±0.20
P1	0.15±0.10	0.15±0.10	0.15±0.10	0.40±0.20	0.55±0.25	0.95±0.20
P2	0.33±0.10	0.27±0.10	0.50±0.20	0.50±0.20	1.00±0.25	—
T	0.35±0.10	0.35±0.05	0.40±0.15	0.40±0.10	0.40±0.10	0.80±0.15

Equivalent circuit



Electrical

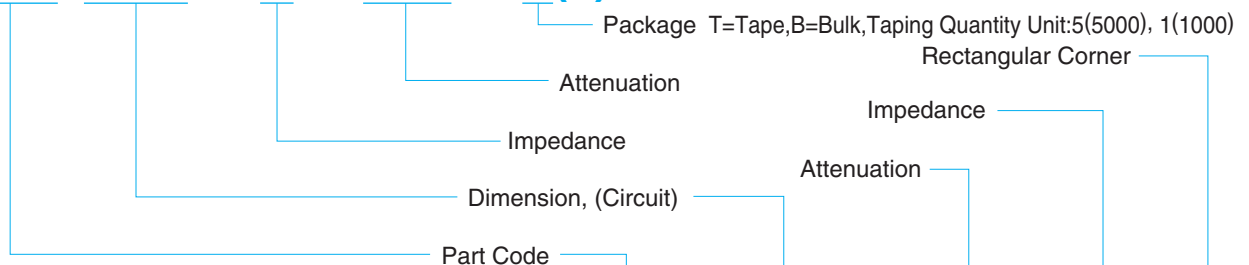
Type	RAT1010X					PAT0510S			PAT0816 NEW	PAT1220	PAT1632		PAT3042S	
Attenuation	1~5dB	6~9dB	10dB	11~16dB	20dB	0~3dB	4~7dB	8~10dB	0~10dB	0~10dB	0~10dB	16dB	0~10dB	16, 20dB
Attenuation tolerance	±0.3dB	±0.4dB	±0.75dB	±0.8dB	±2.5dB	±0.3dB	±0.5dB	±0.7dB	±0.3dB	±0.3dB	±0.3dB	±0.5dB	±0.3dB	±0.5dB
Impedance	50Ω(C)					50Ω(C)			50Ω(C)		50Ω(C)		50Ω(C), 75Ω(D)	
VSWR	<1.3					<1.3			<1.3		<1.3		<1.2(50Ω), <1.3(75Ω)	
Frequency Range	~2.5GHz	~3GHz				DC ~10GHz			DC ~10GHz		DC ~3GHz		~3GHz(50Ω), ~2GHz(75Ω)	
Power Rating	40mW					32mW			63mW	100mW	125mW		250mW	
Rated Operating Temperature	—					70℃								
Operating temperature range	-55℃~+125℃													
Package	10,000pcs/reel					10,000pcs/reel			5,000pcs/reel		100pcs/package 1,000-5,000pcs/reel		50pcs/package 2,000pcs/reel	

- PAT0510 series of 0402 chip with BGA are also available.
- Please contact us for power rating of up to 10W.



PART NUMBER

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



RAT 1010X - 3dB - C - B