High Frequency Surface Mount Attenuators



PAT0510 Series

- Operation to 10GHz
- Surface mount package
- · Wrap-around terminal contruction



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Electrical Data

Attenuation (dB)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10dB		
Impedance	50Ω		
Attenuation Tolerance	0 to 3dB ±0.3dB 4 to7dB ±0.5dB 8 to 10dB ±0.7dB		
VSWR	1.5 or less		
Frequency Range	DC~10GHz		
Rated Power @ 70°C	32mW		
Operating Temperature Range	-55°C to +125°C		
TCR	±50ppm/°C (±0.02dB)		
Termination	90/10 SN/Pb or 100%Sn		

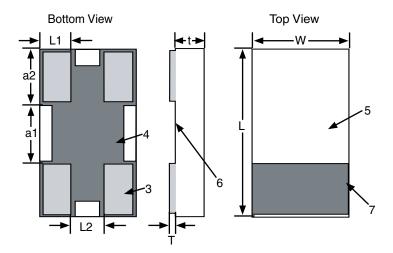
Environmental Data

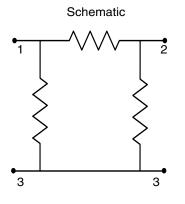
	Test Condition	Tolerance	
	lest Condition	Attenuation	Impedance
Short Time Overload	2.5 x rated voltage, 5 sec	±0.03dB	±0.5%
Load Life	1000 Hours, 70°C	±0.05dB	±1.0%
Moisture Resistance	1000 Hours, 40°C 95% RH	±0.05dB	±1.0%
Temperature Cycle	5 Cycles +125°C high, -55°C Low	±0.03dB	±0.5%
Resistance to Soldering Heat	260°C, 10 sec.	±0.03dB	±0.5%
Terminal Strength	Fulcrum dist: 90mm Bending width: 3mm Substrate: Glass Epoxy t=3mm	±0.03dB	±0.5%
Solderability	235°C, 3 sec.	More than 95%	
Insulation Resistance	500V, 1 minute	1000MΩ or more	

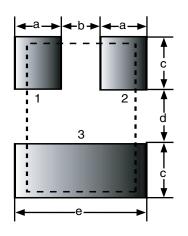
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Physical Data

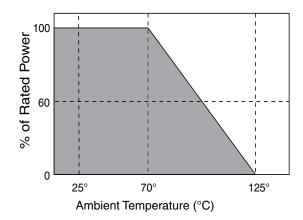




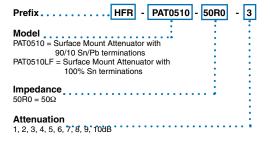


Dimensions (mm)		
L	1.00±0.05	
W	0.50±0.05	
Т	0.02±0.01	
L1	0.17±0.04	
L2	0.14±0.06	
a1	0.39±0.07	
a2	0.29±0.05	
t	0.30±0.05	
а	0.21±0.05	
b	0.18±0.05	
С	0.35±0.05	
d	0.37±0.05	
е	0.60±0.05	

Power Derating Curve



Ordering Data



^{1, 2:} Input and output terminals 3: Electrode (surface soldering and Pb-free available) 4: Covering resin 5: Alumina substrate 6: Thin film resistor 7: Mark (shows direction)