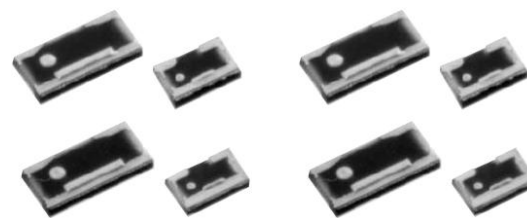


HOW TO ORDER

PPS	-10	A-	50R0	M	LF
Terminal Material SnPb = Leave Blank Lead Free = LF					
Packaging M = tape/reel 5,000 pcs O = tape/reel 1,000 pcs					
Impedance 50Ω					
Circuit Configuration A or B					
Size 0402 = 05 1206 = 18 0603 = 16 2010 = 12 0805 = 10					
Series Precision Power Splitter					



FEATURES

- High Frequency Splitter is constructed of thin film resistive material
- Power splitter with excellent high frequency characteristics for applications from DC~20GHz
- This product has a small reflection feature, allowing for superior in high frequency applications
- Allows for high density mounting
- Bit error is restrained by keeping high frequency digital signal stable

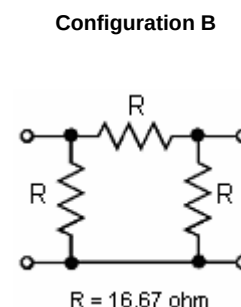
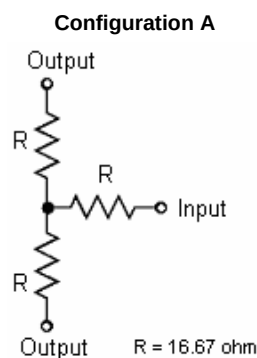
PPS-A ELECTRICAL CHARACTERISTICS

Item		PPS-16A	PPS-10	PPS-18A	PPS-12A
Size		0603	0805	1206	2010
Circuit Configuration		A	A	A	A
Operating Frequency		DC~20GHz	DC~17.5GHz	DC~15GHz	DC~10GHz
Insertion Loss	6 ± 0.5dB	DC~10GHz	DC~10GHz	DC~10GHz	DC~7.5GHz
	6 ± 1.0dB	10~20GHz	10~17.5GHz	10~15GHz	7.5~10GHz
Split Deviation		0.3dB max	0.3dB max	0.3dB max	0.3dB max
VSWR	1.3	DC~10GHz	DC~10GHz	DC~10GHz	DC~7.5GHz
	1.5	10~20GHz	10~17.5GHz	10~15GHz	7.5~10GHz
Input Power at 70°C		100mW	125mW	250mW	500mW
Max Overload Power		200mW	250mW	500mW	1000mW
Resistance		R1 = R2 = R3 = 50Ω typical			
Operating Temperature		-40°C ~ +125°C			
Packaging		1,000/Reel or 5,000/Reel			

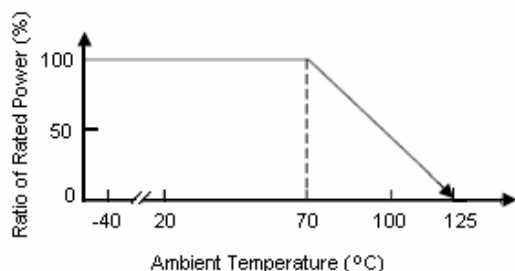
PPS-B ELECTRICAL CHARACTERISTICS

Item	PPS-10B	PPS-18B
Size	0805	1206
Circuit Configuration	B	B
Resistance Tolerance	±0.1%, ±0.5%, ±1%	
TCR	±50ppm/°C	±50ppm/°C
Power Rating per Element	33 mW	42 mW
Power Rating per Package	100 mW	125 mW
Rated Operating Temp	70°C	
Resistance	R1 = R2 = R3 = 50Ω typical	
Operating Temp. Range	-55°C ~ +125°C	
Package Quantity	1,000/Reel or 5,000/Reel	

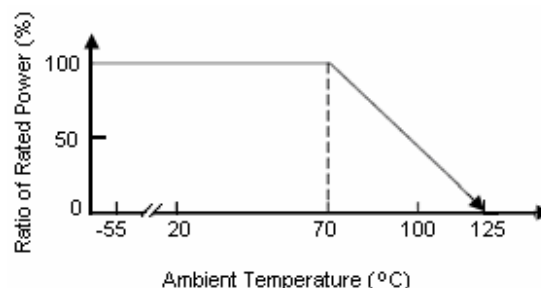
CIRCUIT



DERATING CURVE – Circuit A



DERATING CURVE – Circuit B



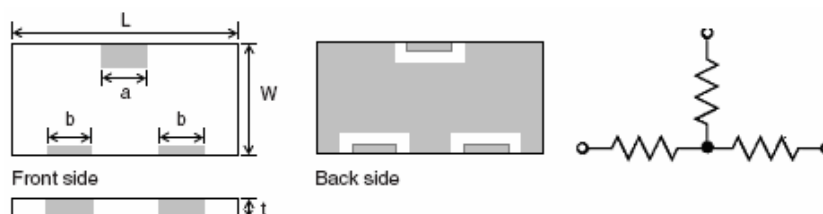
DIMENSIONS (mm)

Series	L	W	a	b	t
PPS-05A	1.00 ± 0.2	0.50 ± 0.2	0.4 ± 0.1	0.30 ± 0.1	0.4 ± 0.10
PPS-16A	1.60 ± 0.2	0.80 ± 0.2	0.4 ± 0.1	0.30 ± 0.1	0.4 ± 0.10
PPS-10A	2.00 ± 0.2	1.25 ± 0.2	0.4 ± 0.1	0.30 ± 0.1	0.4 ± 0.10
PPS-18A	3.20 ± 0.2	1.60 ± 0.2	0.3 ± 0.1	0.35 ± 0.1	0.4 ± 0.10
PPS-12A	0.50 ± 0.2	2.5 ± 0.2	0.35 ± 0.1	0.65 ± 0.1	0.8 ± 0.15

SCHEMATIC LEGEND

1. Thin Film Resistor
2. Overcoat Resin
3. Terminal (SnPb or Lead Free)
4. Marking (dot to indicate direction & bar)
5. Alumina Substrate

SCHEMATIC – Circuit A



PERFORMANCE

Item	Test Condition	Tolerance
Short Time Overload	2.5 times of the rated voltage shall be applied for 5 seconds.	±0.1%
Rated Load Life	Apply rated voltage for 90 min followed by a pause of 30 min at 70±3°C for 1000 hours.	±0.25%
Moisture Load Life	The chip divider is applied rated voltage for 90 min at 60±2°C 90~95%RH for 1000 hours.	±0.25%
Temperature Cycle	[-55°C (30min)-R.T.(3min)-+125°C(30min)-R.T.(3min)] is repeated 5 cycles.	±0.1%
Soldering Heat Resistance	Leave NR in melt solder of 260±5°C for 10±1 seconds.	±0.1%
Strength Between Terminals	Distance between fulcrums : 90mm; Bending width : 3mm; Substrate: Glass epoxy t=1.6mm	±0.1%
Solderability	Leave NR in melted solder of 235±5°C for 3±0.5 seconds.	≥95% of the surface should be wet
Insulation Resistance	A minute after 500 DC	≥ 1000M Ω

*** Custom Designs Available