

Split Ground High Power Thin Film Terminators

PCS-P Series

- High power dissipation to 80W
- High frequency operation to 10GHz
- High heat dissipating double-sided flange



The PCS-P series split ground high power thin film terminator combines the improved heat dissipation of a double-sided flange and the split ground to give a power rating of up to 80W, while providing excellent high frequency characteristics from DC to 10GHz. Attaching the flange directly to a heat sink provides improved heat dissipation at a higher power rating. Typical applications include aerospace, wireless communication, satellites and RF power amplifiers.

Electrical Data

	3042P	3060P	3080P
Impedance	50Ω		
VSWR			
DC to 1.5 GHz	1.1		1.2
1.6 to 3 GHz	1.1		N/A
3.1 to 10 GHz	1.3		N/A
TCR	±50ppm/°C		
Power Rating @70°C	1W	1.5W	
Max Power Rating with Heat Sink @65°C	5W	30W	80W
Operating Temperature Range	-55°C to +125°C		
Termination	Matte Tin Finish 100% Sn		

Environmental Data

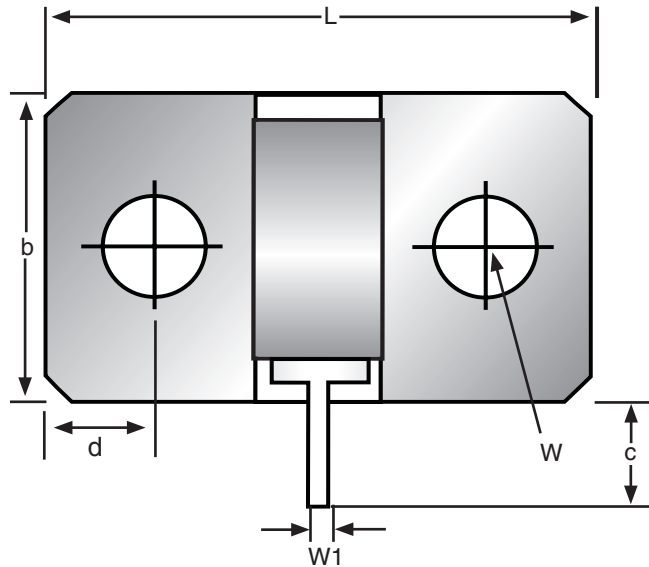
	Test Condition	Maximum
Short Time Overload	2.5 x Rated Voltage, 5 sec.	±0.5% +0.05Ω
Load Life	40°C, 1000 Hours	±1.0% +0.05Ω
Moisture Resistance	1000 Hours, 40°C 95% RH	±1.0% +0.05Ω
Temperature Cycle	5 Cycles 70°C High, -10°C Low	±0.5% +0.05Ω
Resistance to Soldering Heat	250°C, 3 sec.	±0.5% +0.05Ω
Insulation Resistance	DC 500V, 1 min.	>1,000MΩ

General Note

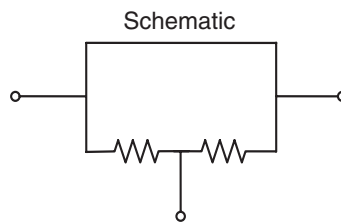
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Physical Data



Dimensions (mm)			
Dim.	3042PLF	3060PLF	3080PLF
L	13.0 ± 0.30	13.0 ± 0.30	13.0 ± 0.30
t	2.5 Max	2.5 Max	2.5 Max
b	8.0 ± 0.3	8.0 ± 0.3	8.0 ± 0.3
c	3.0 ± 0.2	5.0 Min	3.0 ± 0.2
d	2.5 ± 0.3	2.5 ± 0.3	2.5 ± 0.3
W	2-φ2.5 ± 0.2	2-φ2.5 ± 0.2	2-φ2.5 ± 0.2
W1	0.4 ± 0.1	0.4 ± 0.1	0.4 ± 0.1
T	0.2 ± 0.1	0.2 ± 0.1	0.2 ± 0.1



Ordering Data

Prefix **HFR** - **PCS3080PLF** - **50R0**

Model
 PCS3042PLF = Split ground thin film terminator with 100% Sn terminations
 PCS3060PLF = Split ground thin film terminator with 100% Sn terminations
 PCS3080PLF = Split ground thin film terminator with 100% Sn terminations

Impedance
 50R0 = 50Ω