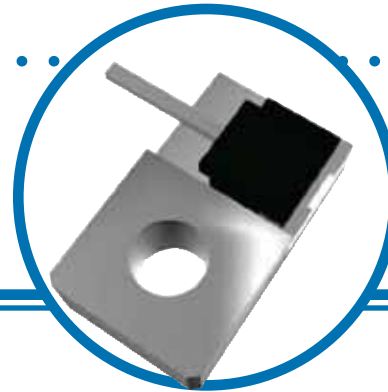


High Power, High Frequency Terminators



PCS-R Series

- Single sided flange style
- Up to 12.5W power dissipation
- High frequency operation to 2.1GHz

The PCS-R series high power thin film terminator is designed for termination of RF signals as a surface mount coupler load or other RF applications. Typical applications include high power RF amplifiers, and wireless base stations. Higher power dissipation is achieved by attaching a wrap-around flange directly to the heat sink. The thin film construction provides consistent operational stability over temperature and time.

Electrical Data

Impedance	50
VSWR	1.1 Max
Frequency Range	DC to 2.1GHz
Power Rating @70°C	1W (Max 12.5W)
TCR	±50ppm/°C
Max Heat Sink Temperature (@ Max Rated Power)	80°C
Operating Temperature Range	-55° to +80°C
Terminations	90/10 Sn/Pb or 100% Sn

Environmental Data

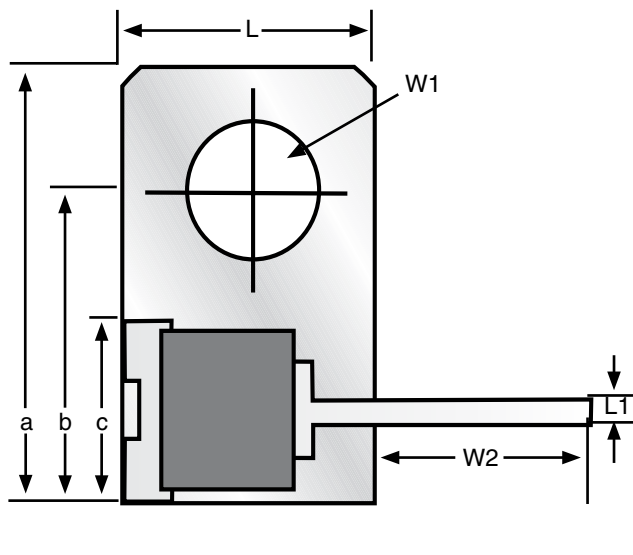
Test	Test Condition	To Meet
Short Time Overload	Rated Voltage x 2.5, 5 sec.	±0.5% +0.05
Load Life	1000 Hours 40°C, Rated Voltage	±1.0% +0.05
Solderability	235°C, 3 sec.	More than 95%
Moisture Resistance	1000 Hours, 40°C 95% RH	±1.0% +0.05
Temperature Cycle	5 Cycles 70°C High, -10°C Low	±0.5% +0.05
Resistance to Soldering Heat	250°C, 10 sec.	±0.5% +0.05
Insulation Resistance	DC 500V, 1 min.	>1,000M

General Note

IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.

High Power, High Frequency Terminators

Physical Data



Dimensions (mm)	
L	4.00±0.10
t	2.00±0.10
a	7.00±0.10
b	5.00±0.10
c	3.00±0.10
W1	∅2.40±0.20
W2	3.00±0.20
T	1.40±0.20
L1	0.40±0.10
L2	3.00±0.10

Schematic



Ordering Data

Prefix **HFR** - **PCS3040R** - **50R0**

Model

PCS3040R = Split ground thin film terminator with 90/10 Sn/Pb terminations
 PCS3040RLF = Split ground thin film terminator with 100 % Sn terminations

Impedance

50R0 = 50Ω