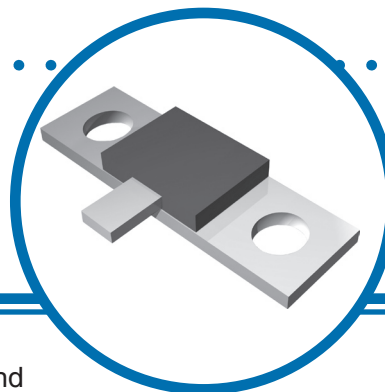


High Frequency Surface Mount Terminator

RFTF Series

- Low return loss
- RoHS Compliant
- High power dissipation up to 250W
- Long life, temperature stable thin film technology



IRC's RFTF series utilizes the combined benefits flange cooling and the high thermal conductivity of aluminum nitride (AlN) to provide power ratings from 10W to 250W. This series comes with single-sided or double-sided flanges and single leaded terminal configurations, adding increased RF design flexibility. Typical applications for the RFTF series include aerospace, wireless communication, satellites, RF power sources and power amplifiers.

Electrical Data

	RFTF10LF	RFTF50LF	RFTF100LF	RFTF150LF	RFTF250LF
Power Rating	10W	50W	100W	150W	250W
Capacitance	<0.5pF	<1.0pF	<1.0pF	<1.0pF	<1.0pF
Resistance	50Ω, 75Ω, 100Ω				
Frequency Range	DC to 3GHz				
VSWR	<1.1				
Tolerance	±1%				
Absolute TCR	±50ppm/°C				
Rated Voltage	$\sqrt{P \times R}$				
Operating Temperature Range	-55°C to +155°C				

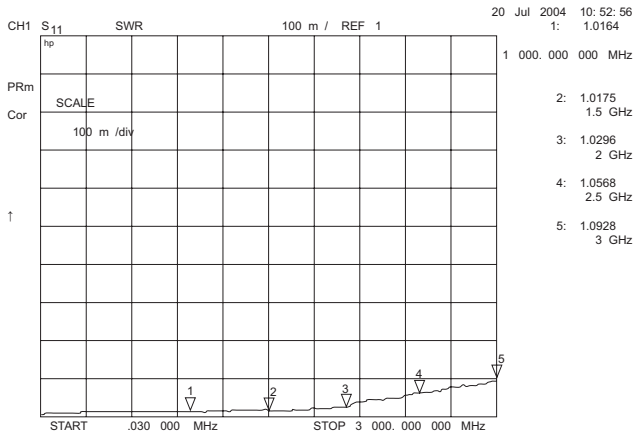
General Note

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.

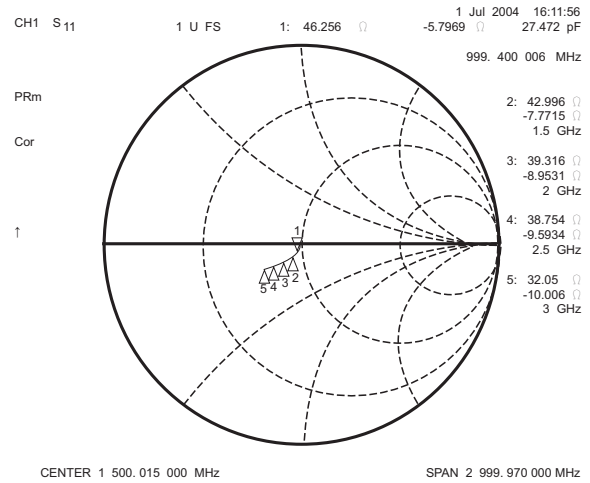
High Frequency Surface Mount Terminator

Frequency Performance Data

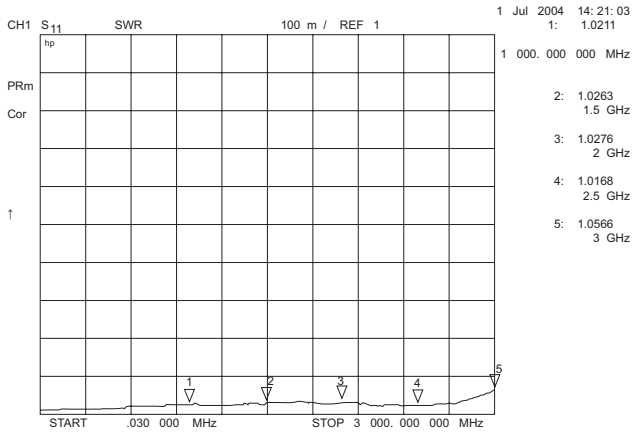
VSWR, RFTF150LFC, 50ΩF



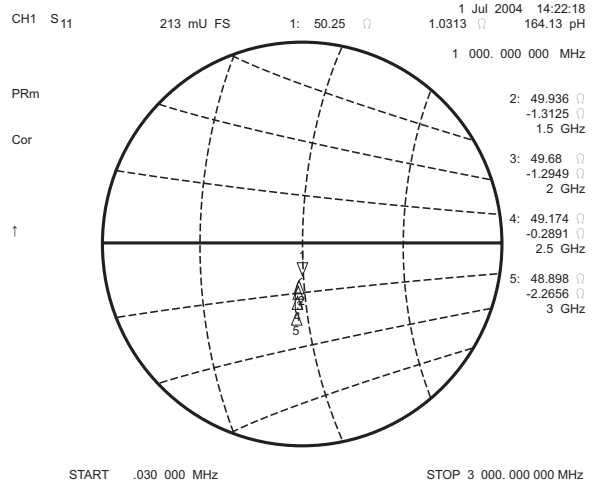
S11, RFTF150LFC, 50ΩF



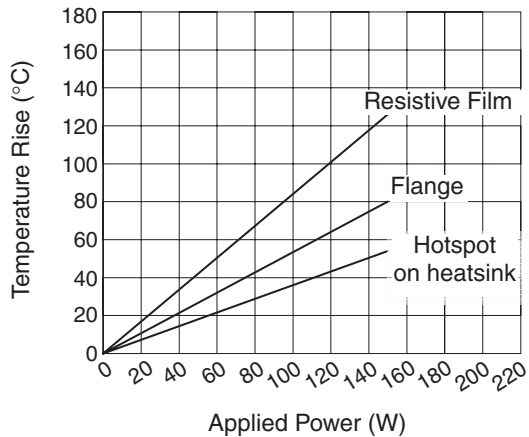
VSWR, RFTF250LFC, 50ΩF



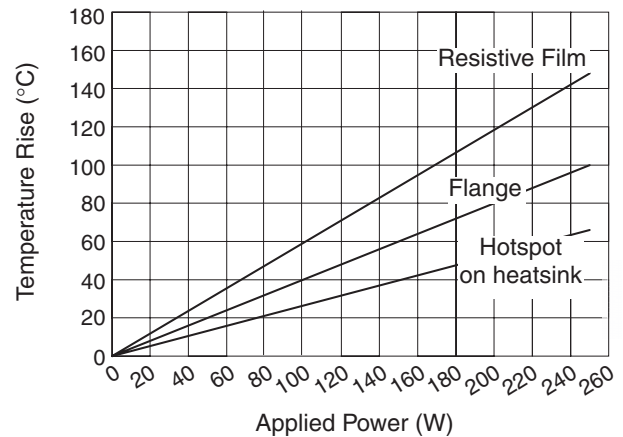
S11, RFTF250LFC, 50ΩF



RFTF150LFC, 50ΩF with 0.2K/W Heatsink

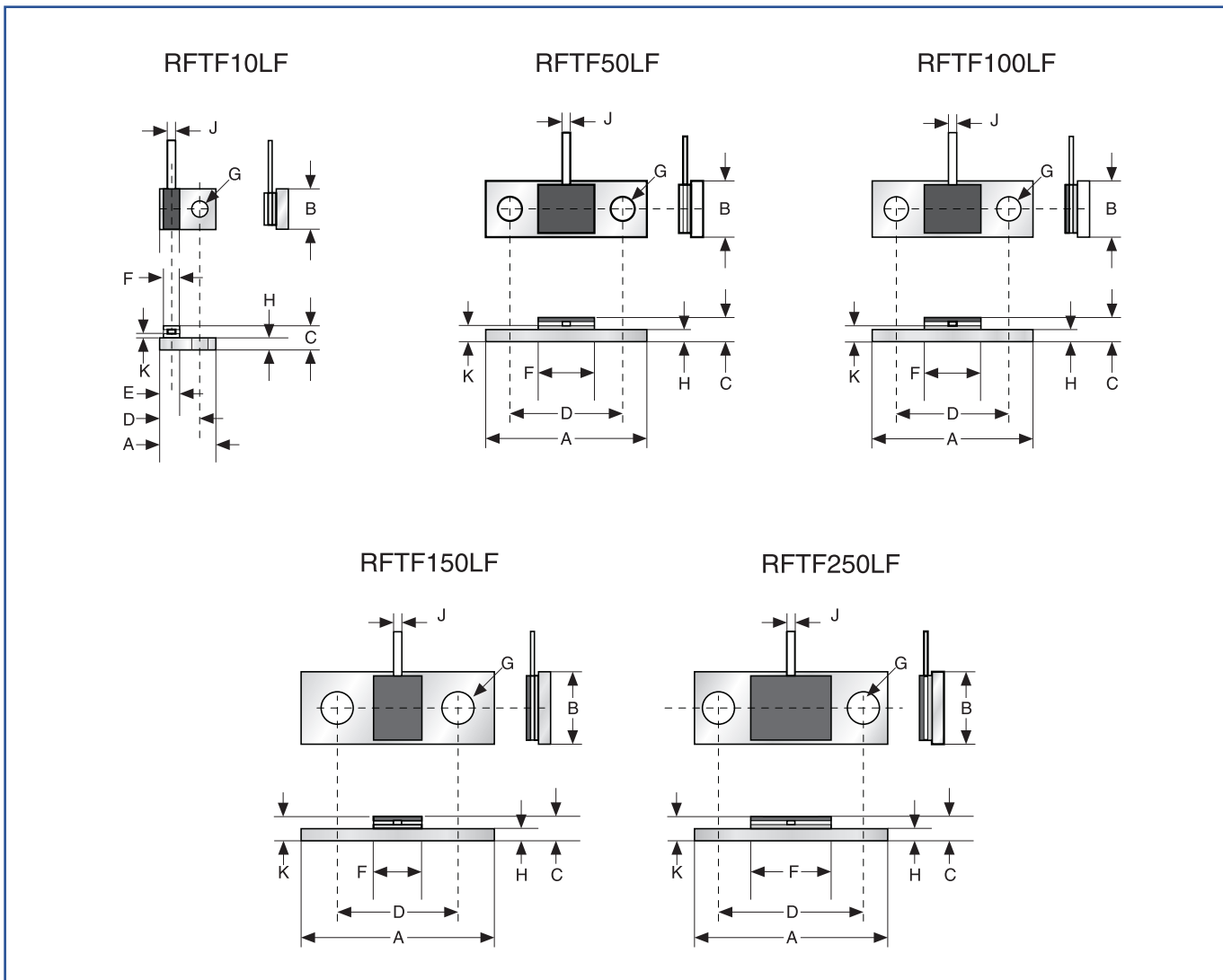


RFTF250LFC, 50ΩF with 0.2K/W Heatsink



High Frequency Surface Mount Terminator

Physical Data



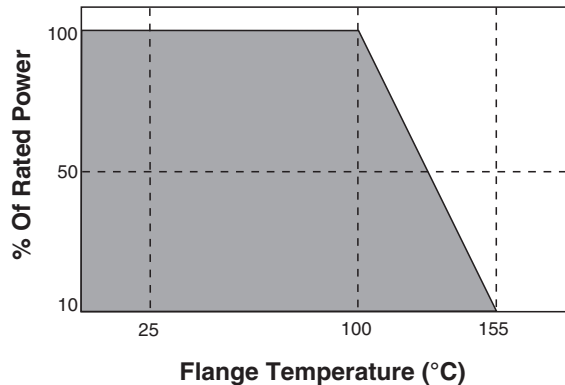
Dimensions (mm)

Model	A	B	C	D	E	F	G	H	J	K
RFTF10LF	7.6	5.10	3.1	5.0	3.0	3.0	2.9	1.5	0.8	2.2
RFTF50LF	20.3	5.70	3.1	14.2	–	8.5	3.2	1.5	1.5	2.6
RFTF100LF	20.3	5.70	3.1	14.2	–	6.3	3.2	1.5	1.5	2.6
RFTF150LF	20.3	5.70	3.1	14.2	–	8.5	3.2	1.5	1.5	2.6
RFTF250LF	25.0	9.53	4.6	18.42	–	9.6	3.2	3.0	3.0	4.1

Notes: Length of lead for all models is 5.08mm. Lead thickness is 0.1mm.

High Frequency Surface Mount Terminator

Power Derating Curve



Ordering Data

Prefix HFR - RFTF100LF - C50 OHM F

Model
RFTF10LF; RFTF50LF; RFTF100LF;
RFTF150LF; RFTF250LF

Resistance
C50 OHM; C75 OHM; C100 OHM

Tolerance
F = ±1%