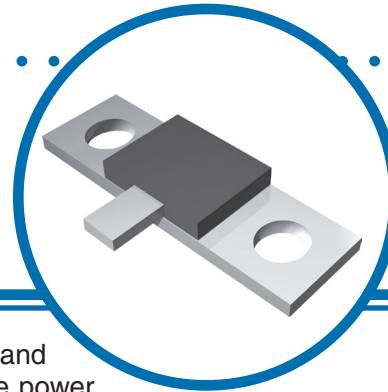


High Frequency Surface Mount Terminator

RFTF Series

- Low return loss
- 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

	RFTF10	RFTF50	RFTF100	RFTF150	RFTF250
Power Rating	10W	50W	100W	150W	250W
Capacitance	<0.5pF	<1.0pF	<1.0pF	<2.0pF	<3.0pF
VSWR	<1.2	<1.2	<1.3	<1.4	<1.8
Resistance	50Ω				
Frequency Range	DC to 3GHz				
Tolerance	±1%				
Absolute TCR	±50ppm/°C				
Rated Voltage	$\sqrt{P \times R}$				
Operating Temperature Range	-55°C to +155°C				

General Note

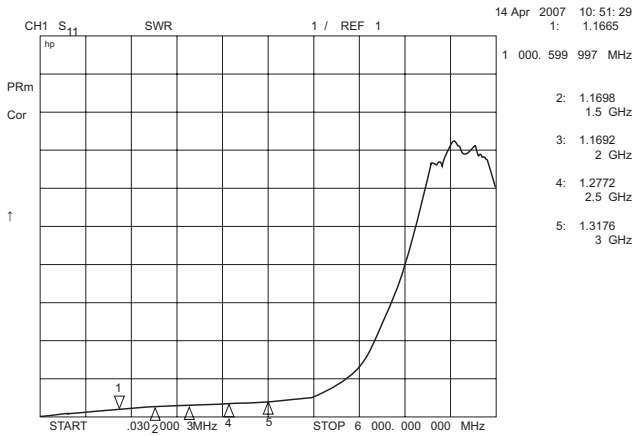
IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.

High Frequency Surface Mount Terminator

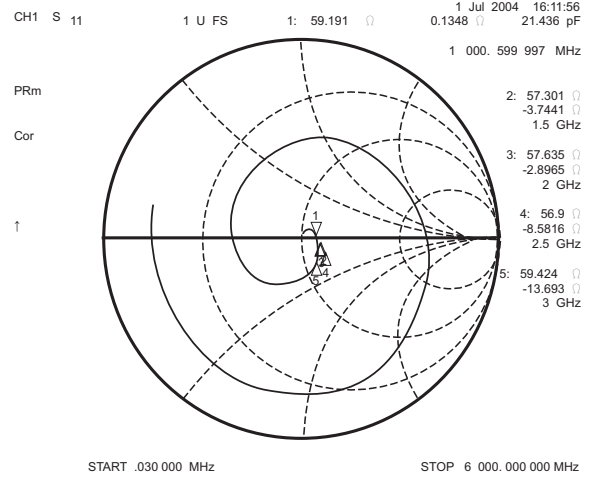


Frequency Performance Data

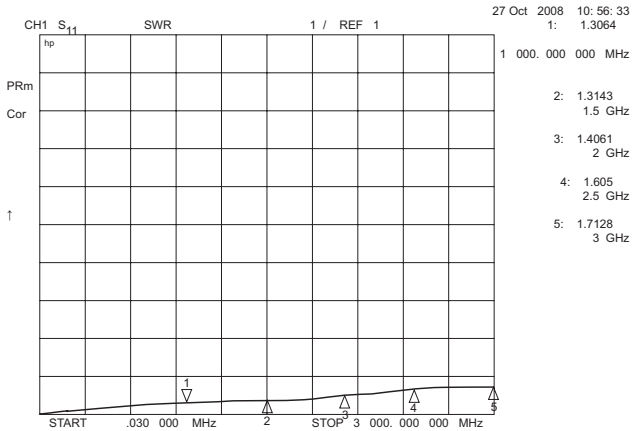
VSWR, RFTF150C, 50ΩF



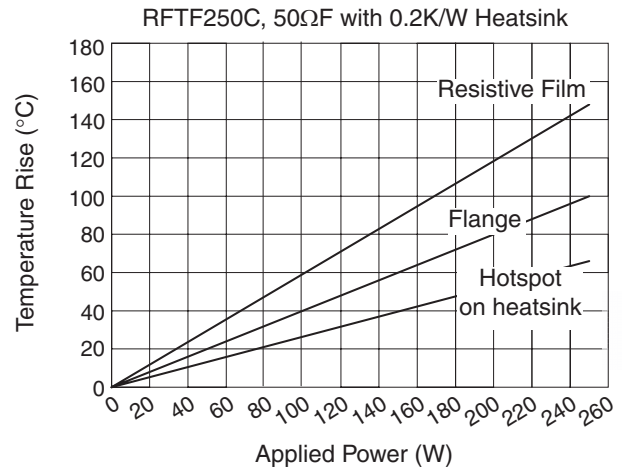
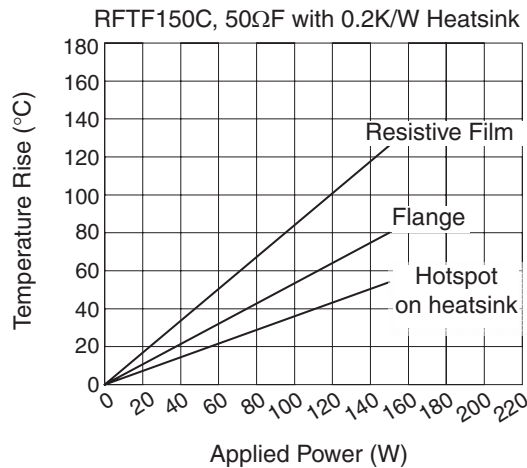
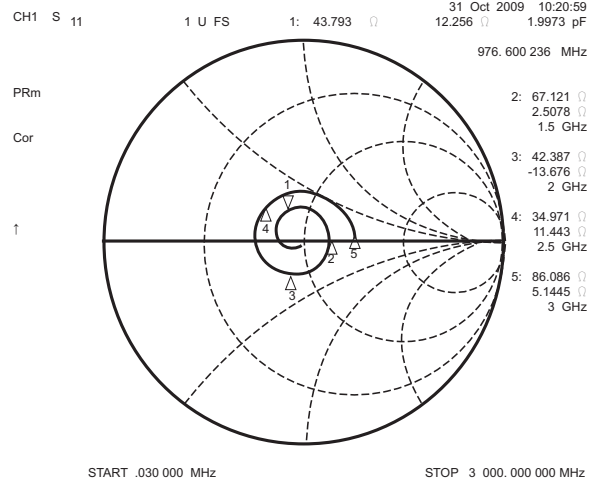
S11, RFTF150C, 50ΩF



VSWR, RFTF250C, 50ΩF

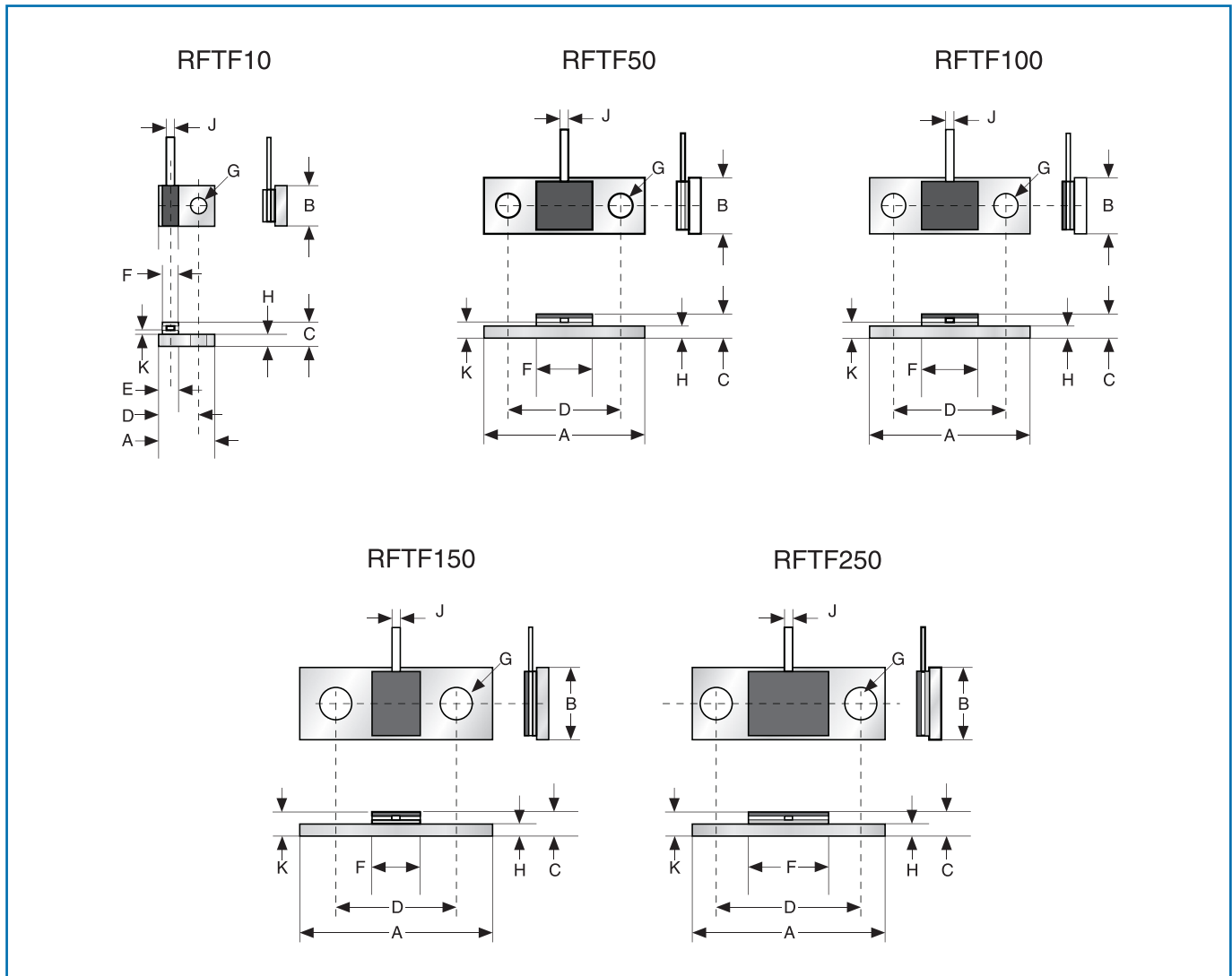


S11, RFTF250C, 50ΩF



High Frequency Surface Mount Terminator

Physical Data



Dimensions (mm)

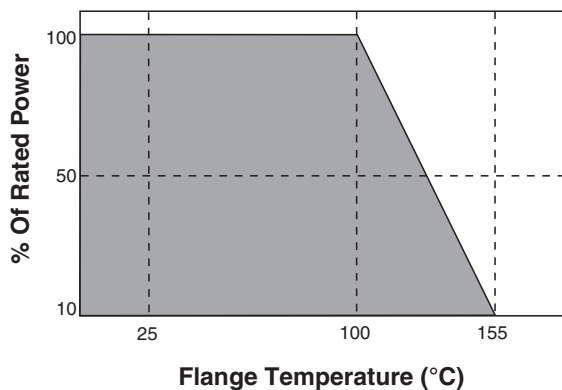
Model	A	B	C	D	E	F	G	H	J	K
RFTF10	7.6	5.10	3.1	5.0	3.0	3.0	2.9	1.5	0.8	2.2
RFTF50	20.3	5.70	3.1	14.2	–	8.5	3.2	1.5	1.5	2.6
RFTF100	20.3	5.70	3.1	14.2	–	6.3	3.2	1.5	1.5	2.6
RFTF150	20.3	5.70	3.1	14.2	–	8.5	3.2	1.5	1.5	2.6
RFTF250	25.0	9.53	4.6	18.42	–	9.6	3.2	3.0	3.0	4.1

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 - RFTF100 - C50 OHM F

Model RFTF10; RFTF50; RFTF100; RFTF150; RFTF250

Resistance C50 OHM

Tolerance F = ±1%