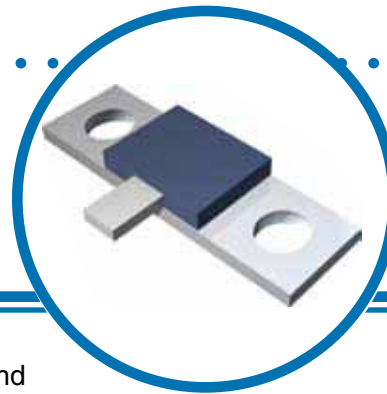


# High Frequency Surface Mount Terminator

## RFTF Series

- Low return loss
- High power dissipation up to 250W
- Thin film technology performance, stability long life



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-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	RFTF40	RFTF50	RFTF100	RFTF120	RFTF150	RFTF250
<b>Power Rating</b>	10W	40W	50W	100W	120W	150W	250W
<b>Capacitance</b>	<0.5pF	<0.5pF	<1.0pF	<1.0pF	<1.0pF	<1.0pF	<1.0pF
<b>Rated Voltage</b>	$\sqrt{P \times R}$						
<b>Absolute TCR</b>	±50ppm/°C						
<b>Frequency Range</b>	DC to 3GHz						
<b>Tolerance</b>	±1%, ±2%, ±5%						
<b>Operating Temperature Range</b>	-55°C to +155°C						
<b>VSWR</b>	<1.1						
<b>Rated Temperature</b>	-55°C to 155°C						
<b>Resistance</b>	50 , 75 (150 , 200 , 250 , and 300 available)						

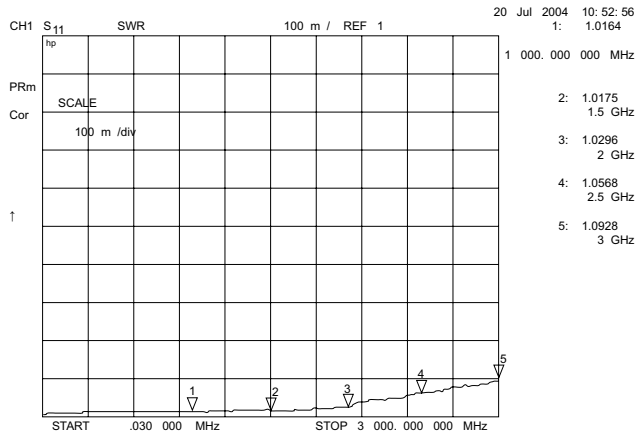
### General Note

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.

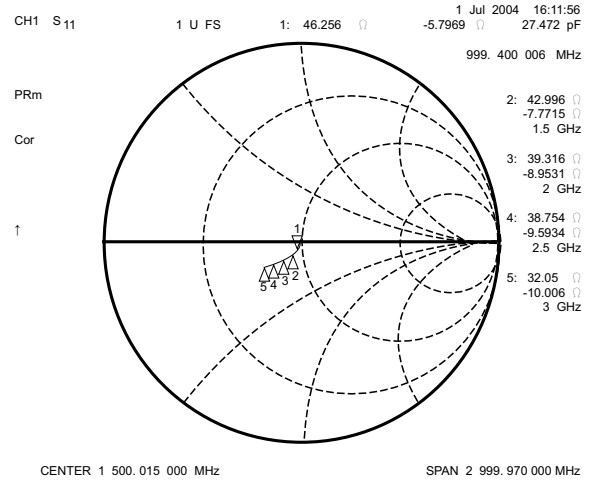
# High Frequency Surface Mount Terminator

## Flange Power Terminations

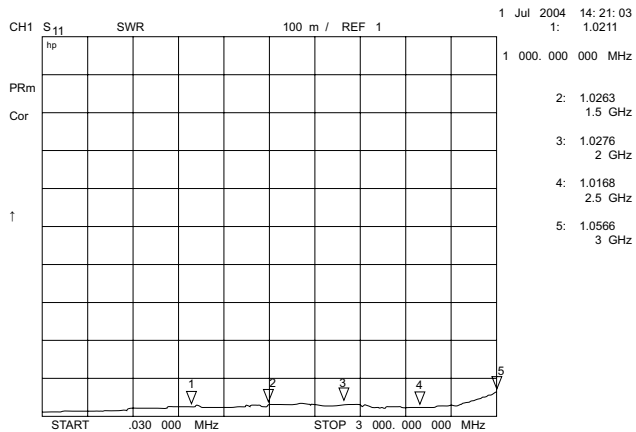
VSWR, RFTF150C, 100 F



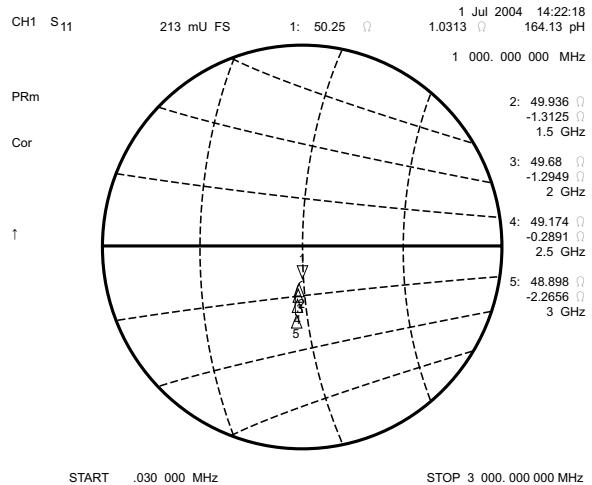
S11, RFTF150C, 50 F



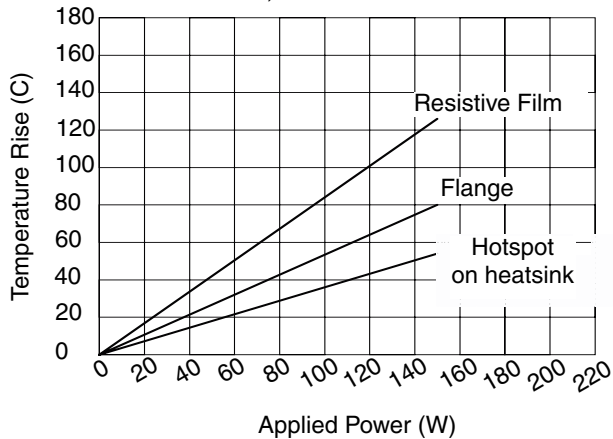
VSWR, RFTF250C, 50 F



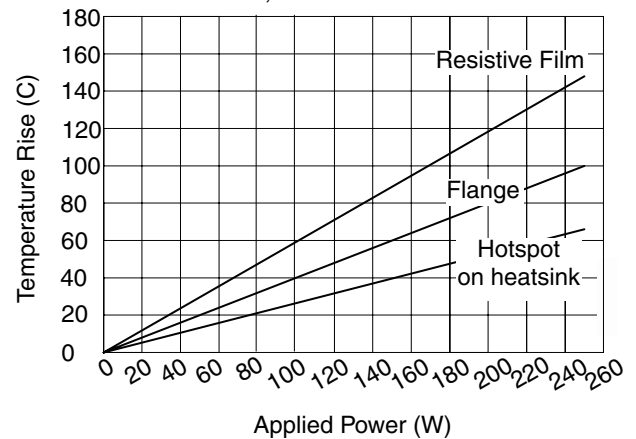
S11, RFTF250C, 50 F



RFTF150C, 50 F with 0.2K/W Heatsink

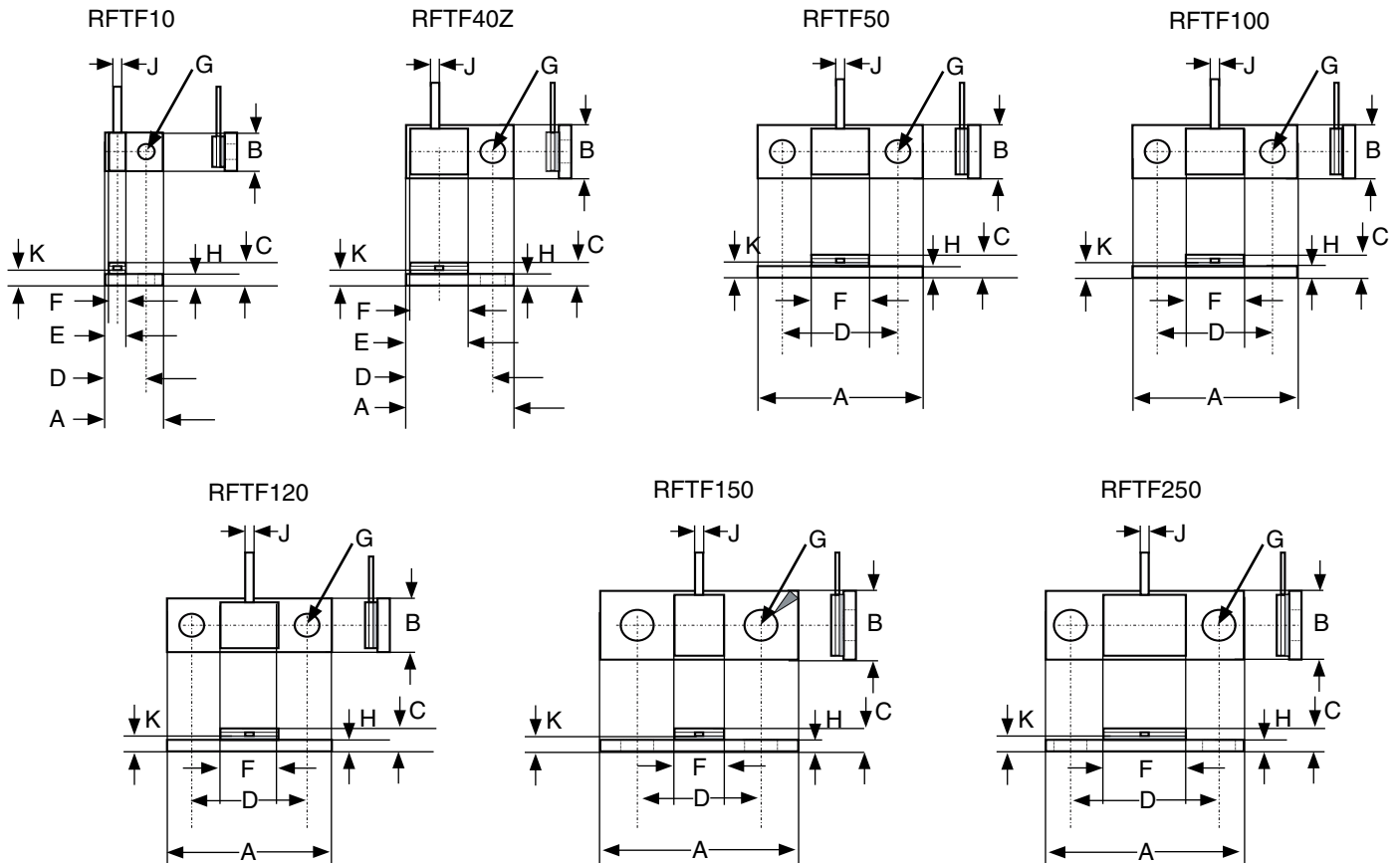


RFTF250C, 50 F with 0.2K/W Heatsink



# High Frequency Surface Mount Terminator

## Physical Data

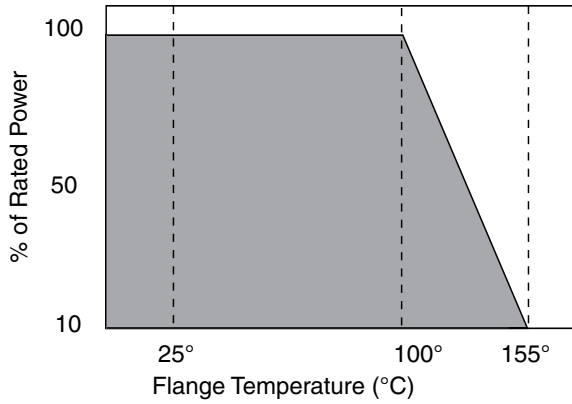


Dimensions (mm)										
Type	A	B	C	D	E	F	G	H	J	K
RFTF10	7.6	5.10	3.1	5.0	3.0	3.0	2.9	1.5	0.8	2.2
RFTF40	13.0	6.35	3.1	9.9	–	6.8	2.9	1.5	0.8	2.2
RFTF50	20.3	5.70	3.1	14.2	–	8.5	3.2	1.5	1.5	2.6
RFTF100	20.3	5.70	3.1	14.2	–	6.3	3.2	1.5	1.5	2.6
RFTF120*	20.3	6.35	3.1	14.2	–	8.9	3.2	1.5	0.8	2.2
RFTF150*	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: Lead length 5.08mm. Lead thickness 0.1mm.

# High Frequency Surface Mount Terminator

## Power Derating Curve



## Ordering Data

Prefix ..... **HFR** - **RFTF100**

Model .....  
RFTF10; RFTF40Z; RFTF50; RFTF100;  
RFTF120; RFTF150; RFTF250