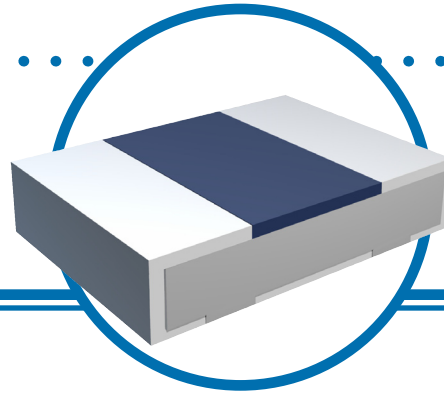


# High Power, Surface Mount RF Terminators

## RFTS Series

- RoHS Compliant
- High frequency operation up to 3GHz
- Long life, temperature stable thin film technology
- Up to 250W dissipation on Aluminum Nitride substrate



The RFTS is a leadless high power chip termination solution. Operation to 3GHz is available through the use of a rugged thin film element providing performance stability over time and temperature. A selection of four termination configurations allow maximum versatility for different circuit designs and construction.

An aluminum nitride substrate provides the high thermal conductivity for power dissipation ratings from 5 watts to 250 watts. Applications include satellite communications, isolator/circulators, cell base stations and high power microwave/RF power amplifiers.

## Electrical Data

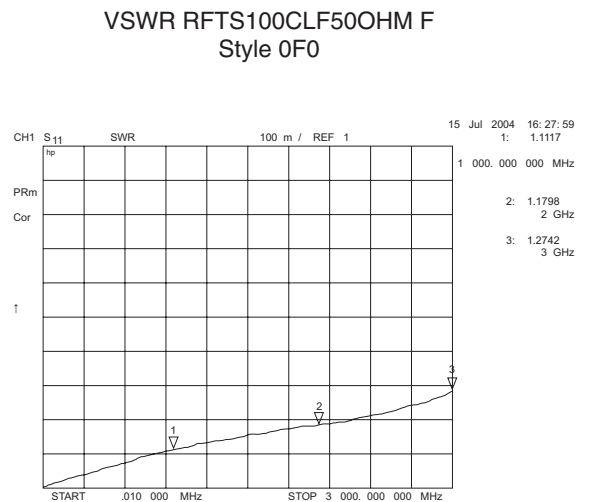
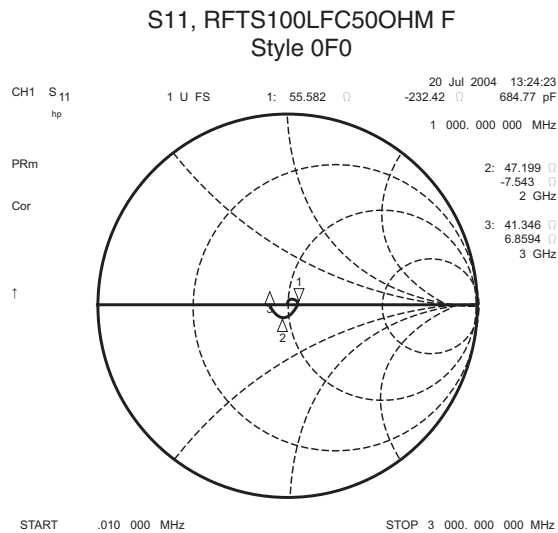
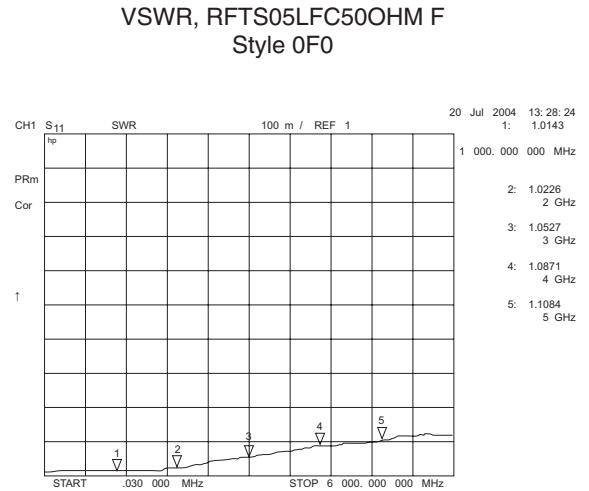
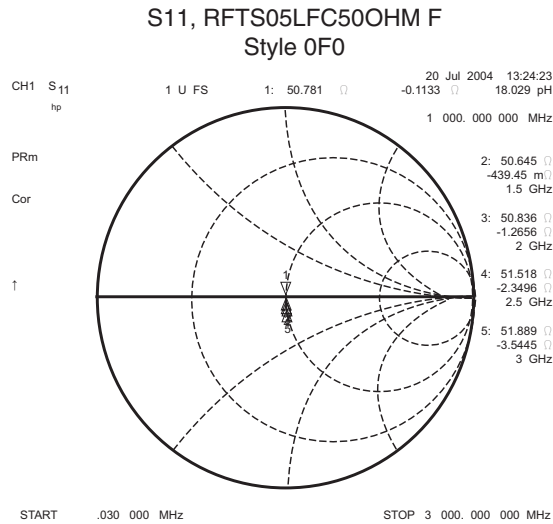
	RFTS05	RFTS10	RFTS50	RFTS100	RFTS250
Resistance	50Ω				
VSWR @ 1GHz	1.15	1.15	1.2	1.2	1.2
Power Rating @100°C (on IMS Boards)	5W	10W	50W	100W	250W
Pulse Power < 1 second	10W	20W	100W	200W	500W
Thermal Resistance	12.5°C/W	6.5°C/W	2.5°C/W	1.3°C/W	0.5°C/W
Tolerance	1%				
Operating Temperature	-55°C to +155°C				
Absolute TCR	±50 ppm/°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.

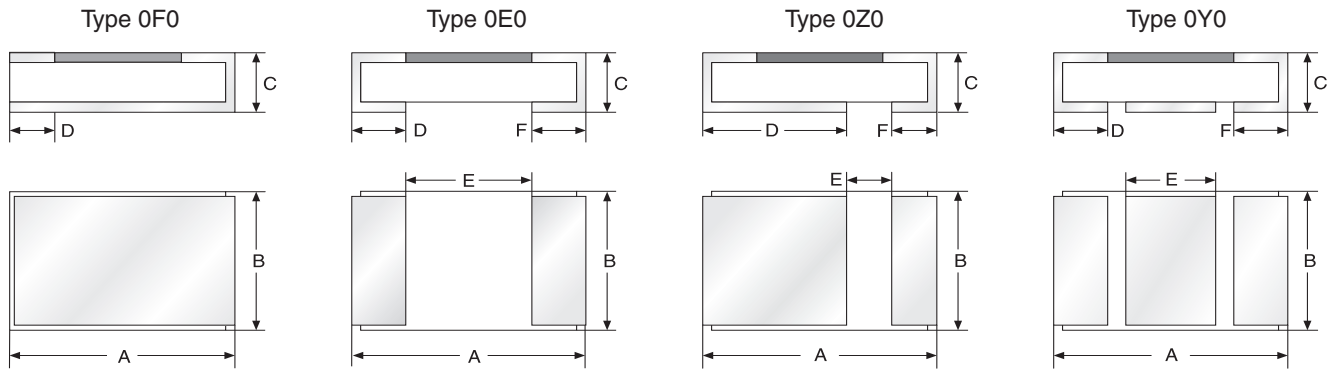
# High Power, Surface Mount RF Terminators

## Frequency Performance Data



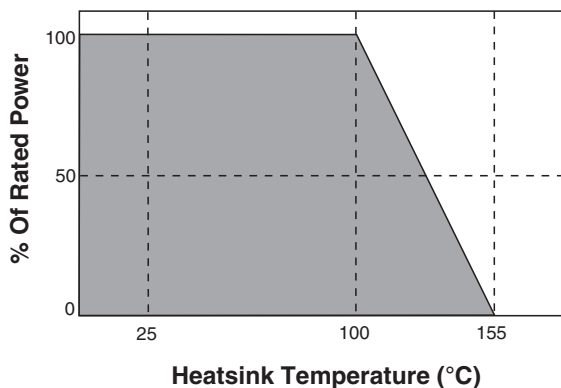
# High Power, Surface Mount RF Terminators

## Physical Data



Dimension (mm)							
Type	Type	A	B	C	D	E	F
RFTS05LF	0F0	2.54	1.27	1.00	0.60	—	—
RFTS05LF	0E0	2.54	1.27	1.00	0.60	1.00	0.60
RFTS10LF	0F0	5.08	2.54	1.00	1.00	—	—
RFTS10LF	0E0	5.08	2.54	1.00	1.00	3.00	1.00
RFTS50LF	0F0	5.08	5.08	1.20	1.00	—	—
RFTS50LF	0E0	5.08	5.08	1.20	1.00	3.00	1.00
RFTS50LF	0Z0	5.08	5.08	1.20	3.00	1.08	1.00
RFTS50LF	0Y0	5.08	5.08	1.20	1.00	2.00	1.00
RFTS100LF	0F0	5.84	8.89	1.20	1.20	—	—
RFTS100LF	0E0	5.84	8.89	1.20	1.20	2.40	1.20
RFTS100LF	0Z0	5.84	8.89	1.20	3.40	1.20	1.20
RFTS100LF	0Y0	5.84	8.89	1.20	1.20	2.40	1.20
RFTS250LF	0F0	9.52	9.52	1.20	1.20	—	—
RFTS250LF	0E0	9.52	9.52	1.20	1.20	7.10	1.20
RFTS250LF	0Z0	9.52	9.52	1.20	7.10	1.20	1.20
RFTS250LF	0Y0	9.52	9.52	1.20	1.20	6.00	1.20

## Power Derating Curve



## Ordering Data

Prefix ..... HFR - RFTS05LF C50 OHM - F - 0F0

Model .....  
RFTS05LF; RFTS10LF; RFTS50LF  
RFTS100LF; RFTS250LF

Resistance .....  
C50 OHM

Tolerance .....  
F = ±1%

Outline Type (See Physical Data) .....  
0F0, 0E0, 0Z0, 0Y0