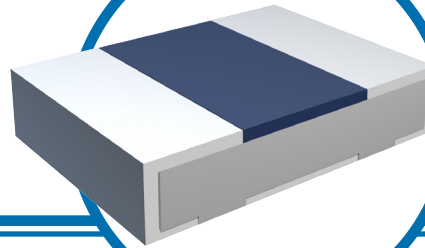


High Power, Surface Mount RF Terminators



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.

© IRC Advanced Film Division • 4222 South Staples Street • Corpus Christi Texas 78411 USA
Telephone: 361 992 7900 • Facsimile: 361 992 3377 • Website: www.irc-tt.com



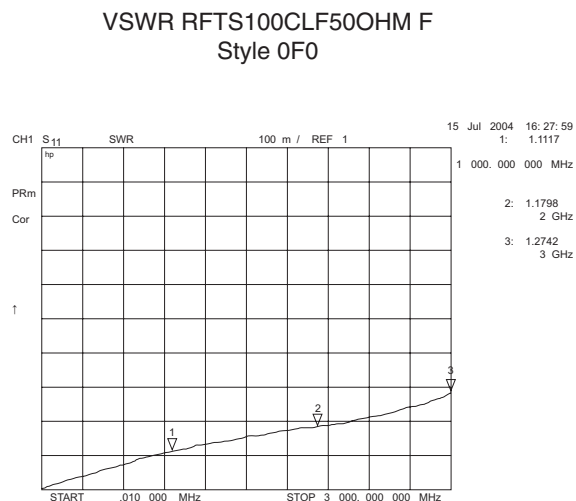
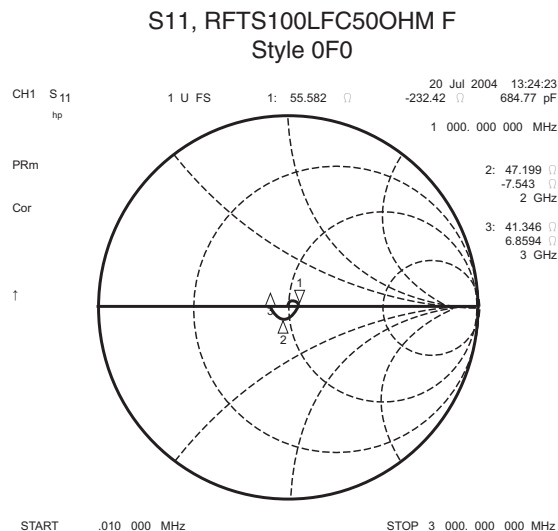
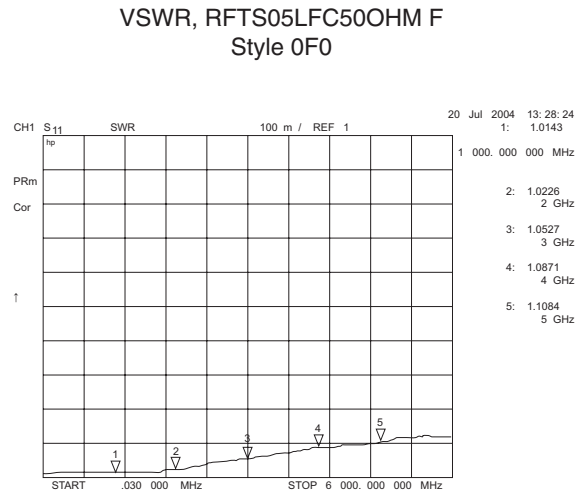
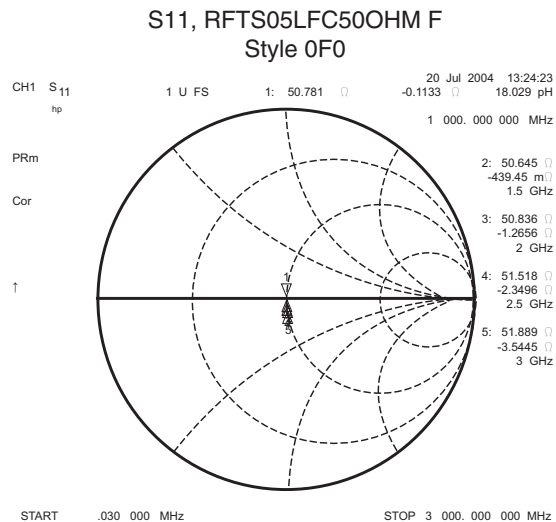
A subsidiary of
TT electronics plc

RFTS Series Issue January 2009 Sheet 1 of 3

High Power, Surface Mount RF Terminators



Frequency Performance Data



High Power, Surface Mount RF Terminators



Physical Data

Type 0F0

Type 0E0

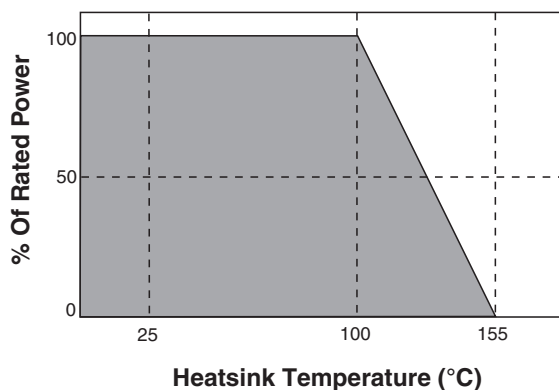
Type 0Z0

Type 0Y0

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