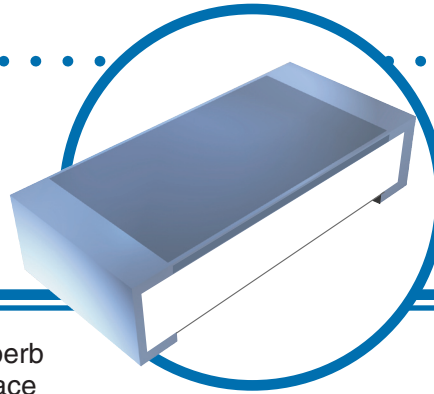


# High Frequency Surface Mount Terminators

## RFX Series

- RoHS Compliant
- Frequency operation to 3GHz
- Small size 10W power chip resistors
- 1% tolerance and 50ppm/°C absolute TCR



The RFX series of high frequency line terminators provide superb high frequency performance at power ratings to 10W in a surface mount chip. Both leadless versions provide maximum flexibility for mechanical circuit attachment and circuit configuration.

The RFX is available in a wide range of ohmic values from 50Ω to 800Ω affording maximum flexibility in controlled impedance transmission line design and termination. Applications include RF/microwave power amplifiers, power splitters, cell base stations and circulators/isolators.

## Electrical Data

	RFX and RFK
<b>Power Rating</b>	10W
<b>Resistance Values</b>	50Ω, 100Ω, 150Ω, 200Ω, 250Ω, 300Ω, 400Ω, 600Ω, 800Ω
<b>Tolerance</b>	±1%
<b>Capacitance</b>	<0.05pF
<b>Operating Temperature Range</b>	-55°C to 155°C
<b>Absolute TCR</b>	±50ppm/°C

## Environmental Data

	Test Condition	Maximum
<b>Short Time Overload</b>	2.5 x Rated Voltage, 5 seconds	±0.2% +0.05Ω
<b>Load Life</b>	1000 Hours, 70°C	±0.2% +0.05Ω
<b>Moisture Resistance</b>	1000 Hours, 40°C, 95% RH	±0.2% +0.05Ω
<b>Temperature Cycle</b>	5 Cycles, +125°C high, -55°C Low	±0.2% +0.05Ω
<b>Resistance to Soldering Heat</b>	260°C, 10 sec.	±0.2% +0.05Ω
<b>Insulation Resistance</b>	500V, 1 minute	>1,000MΩ

### General Note

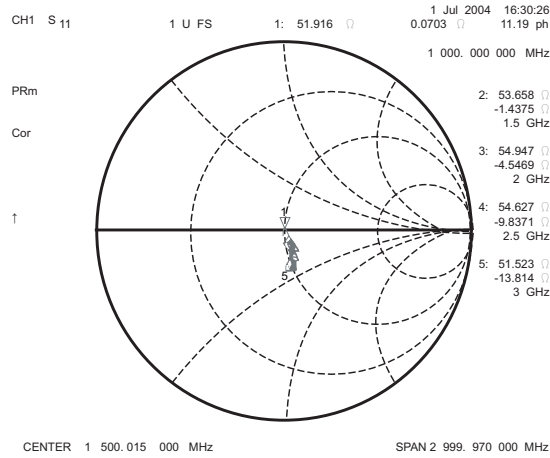
IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.

# High Frequency Surface Mount Terminators

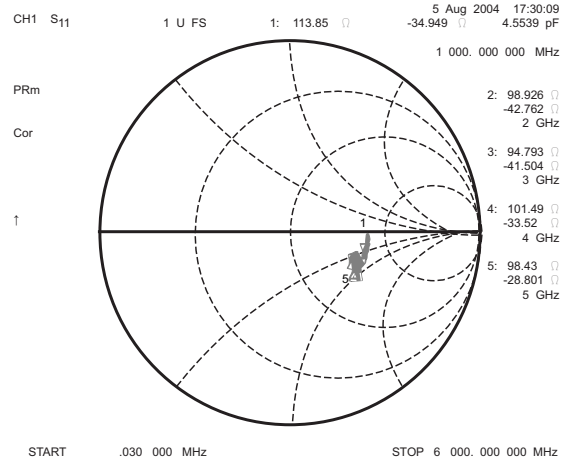


## Frequency Performance Data

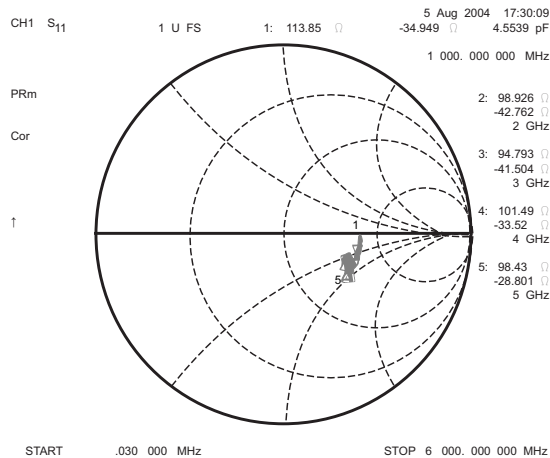
S11, RFH72LFC500F



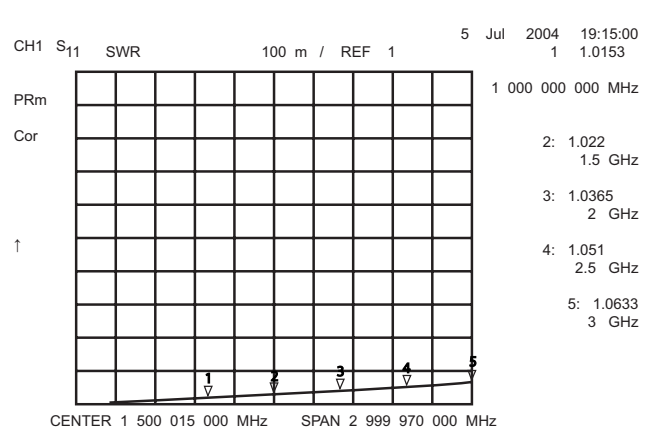
S11, RFH72LFC100F



S11, RFH72LFC150F

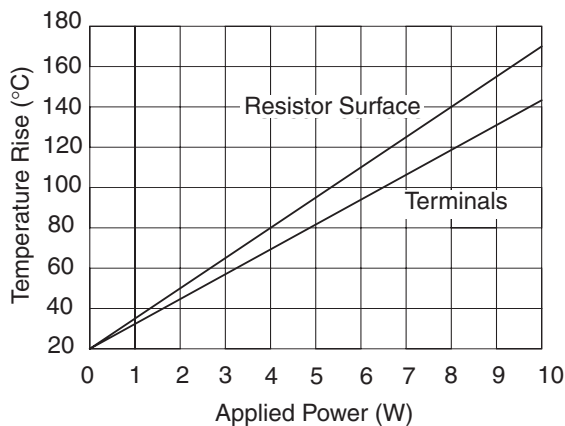


VSWR, RFH72LFC500F

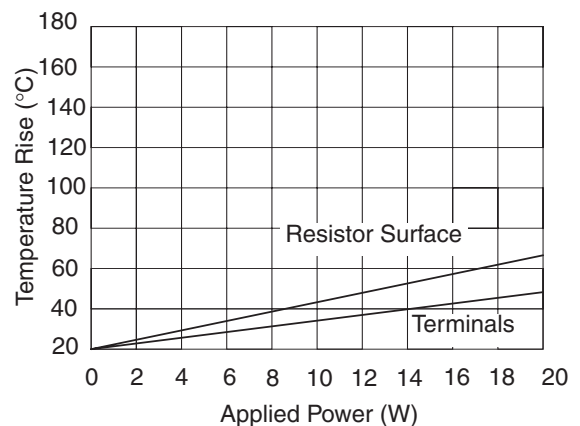


## Thermal Data

Temperature Rise  
RFH72LFC101F on 0.8mm Glass Teflon PWB

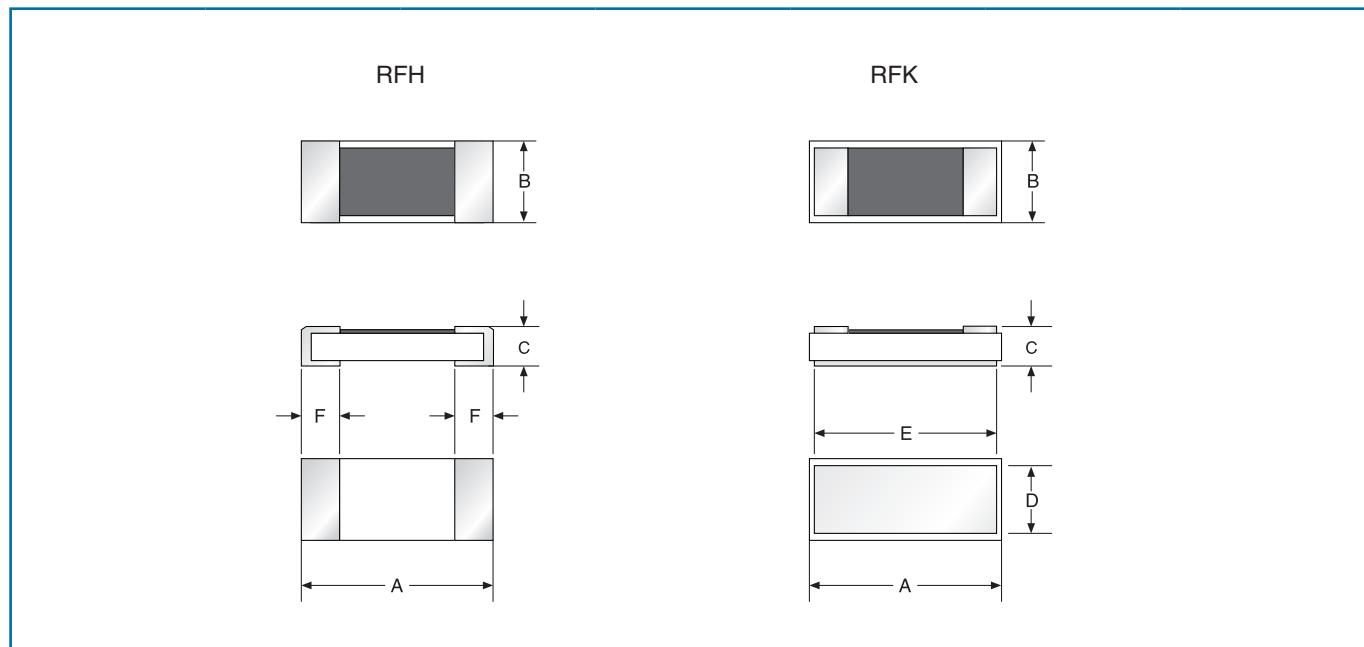


Temperature Rise  
RFH72LFC101F on attached heat sink



# High Frequency Surface Mount Terminators

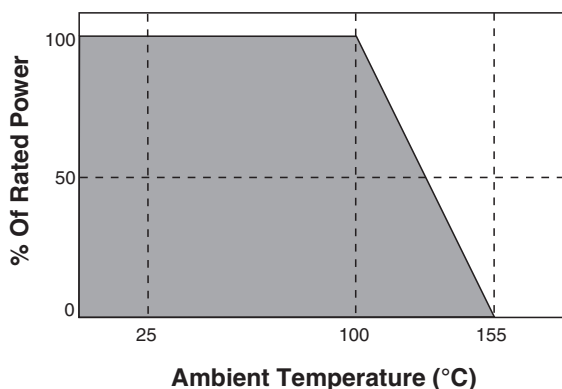
## Physical Data



Dimensions (mm)

Model	A	B	C	D	E	F
RFH52LF	5.0	2.5	1.2 max	—	—	0.8
RFH72LF	7.0	2.0	1.2 max	—	—	0.8
RFK52LF	5.0	2.5	1.2 max	2.3	4.8	—
RFK72LF	7.0	2.0	1.2 max	1.8	6.8	—

## Power Derating Curve



## Ordering Data

Prefix ..... **HFR** - **RFH72LF** - **C50 OHM** **F**

Model .....  
RFH52LF; RFH72LF; RFK52LF; RFK72LF

Resistance .....  
C50 OHM; C100 OHM; C150 OHM; C200 OHM  
C250 OHM; C300 OHM; C400 OHM; C600 OHM; C800 OHM

Tolerance .....  
F = ±1%