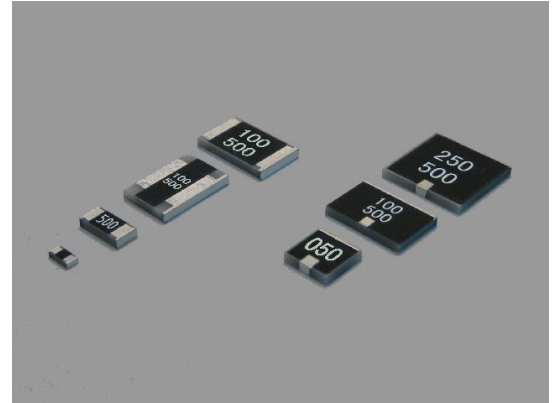


**SURFACE MOUNT  
HIGH POWER TERMINATIONS**

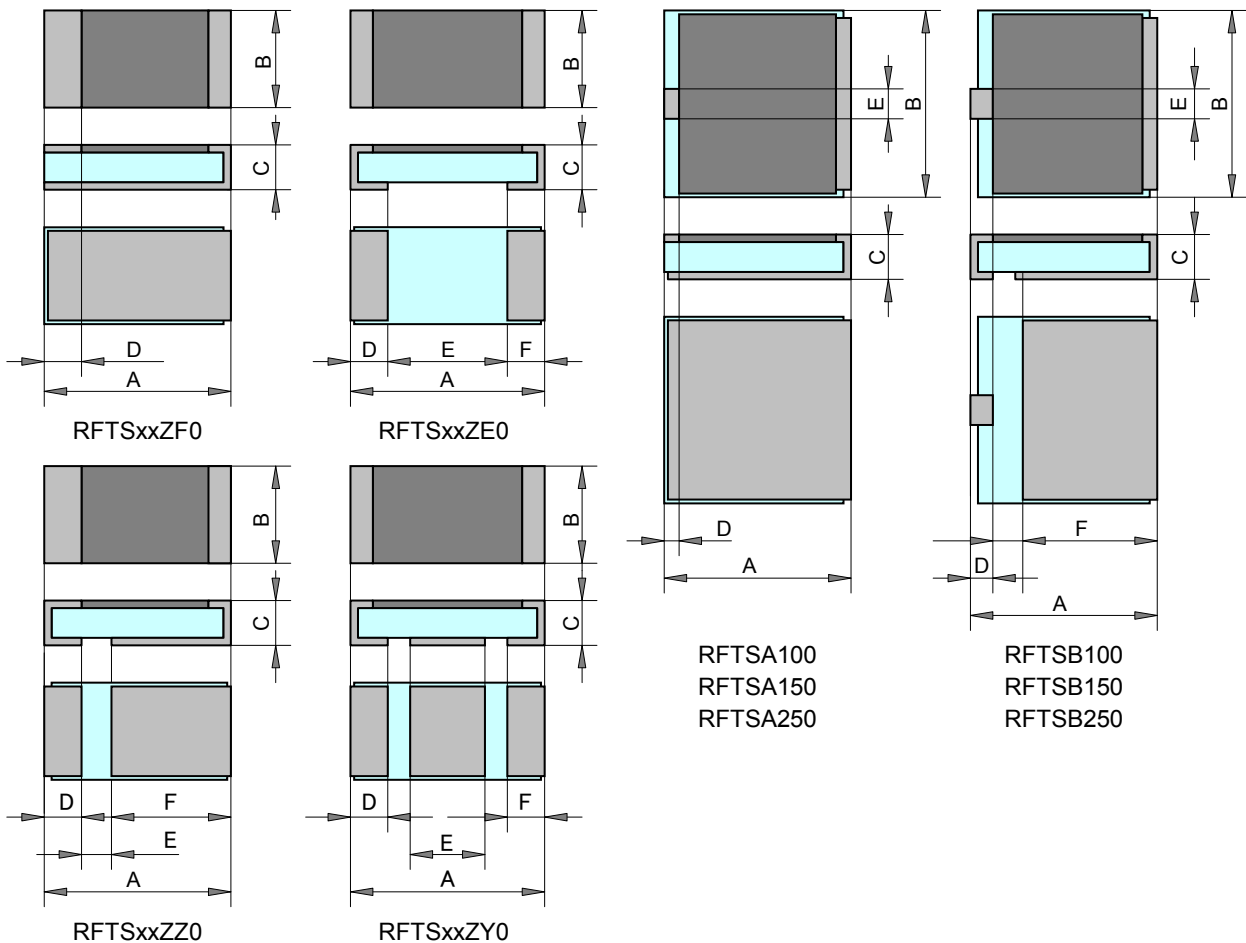
RFTS05, RFTS10, RFTS50, RFTS100  
RFTSA100, RFTSA150, RFTSA250  
RFTSB100, RFTSB150, RFTSB250



**Features and Applications**

- High power surface mount terminations for DC up to 6GHz applications.
- Small size and wide frequency range specifications realized with large heat conducting AlN substrate.
- Sufficient mechanical strength metallization from spattered thin film technology.
- 50ohm characteristic impedance with tolerance 1% in dc and 5W to 250W provided as standard, and other resistance and power available.
- Long life and temperature stability a result of Ni-Cr thin film technology.
- Terminations for isolator/circulators, fixed station of mobile communication electronics, and high power microwave amplifiers.

**Style and Dimension**



## SURFACE MOUNT HIGH POWER TERMINATIONS

RFTS05, RFTS10, RFTS50, RFTS100,  
RFTSA100, RFTSA150, RFTSA250, RFTSB100, RFTSB150, RFTSB250

## Dimensions (mm)

Rated Power (W)	Type	Terminal	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
5	RFTS05	ZF0	2.54	1.27	0.63	0.70+/-0.2	-	-
5	RFTS05	ZE0	2.54	1.27	0.63	0.70+/-0.2	(1.14)	0.70+/-0.2
10	RFTS10	ZF0	5.08	2.54	1.00	1.00		-
10	RFTS10	ZE0	5.08	2.54	1.00	1.00	3.00	1.00
50	RFTS50	ZF0	5.08	5.08	1.20	1.00	-	-
50	RFTS50	ZE0	5.08	5.08	1.20	1.00	3.00	1.00
50	RFTS50	ZZ0	5.08	5.08	1.20	3.00	1.08	1.00
50	RFTS50	ZY0	5.08	5.08	1.20	1.00	2.00	1.00
100	RFTS100	ZF0	5.84	8.89	1.20	1.20	-	-
100	RFTS100	ZE0	5.84	8.89	1.20	1.20	2.40	1.20
100	RFTS100	ZZ0	5.84	8.89	1.20	3.40	1.20	1.20
100	RFTS100	ZY0	5.84	8.89	1.20	1.20	2.40	1.20
100	RFTSA100	---	5.84	8.89	1.20	1.20	1.20	---
100	RFTSB100	---	5.84	8.89	1.20	1.20	1.20	1.20
150	RFTSA150	---	8.89	8.89	1.20	1.20	1.20	---
150	RFTSB150	---	8.89	8.89	1.20	1.20	1.20	1.20
250	RFTSA250	---	9.52	9.52	1.20	1.20	1.20	---
250	RFTSB250	---	9.52	9.52	1.20	1.20	1.20	1.20

## Ordering Information

Type	TCR	Impedance	Tolerance	Terminals & T/R	Note
RFTS50	C	500	F	ZF0	---
RFTS05	C (50ppm/K)	500 (50ohm)	F (1%)	ZF0	Bulk
RFTS10				ZE0	Bulk
RFTS50				ZZ0	Bulk
RFTS100				ZY0	Bulk
				ZF1	Tape reel
				ZE1	Tape reel
				ZZ1	Tape reel
				ZY1	Tape reel
RFTSA100	C	500	F	Z00	---
RFTSA100	C (50ppm/K)	500 (50ohm)	F (1%)	Z00	Bulk
RFTSB100				Z01	Tape reel
RFTSA150					
RFTSB150					
RFTSA250					
RFTSB250					

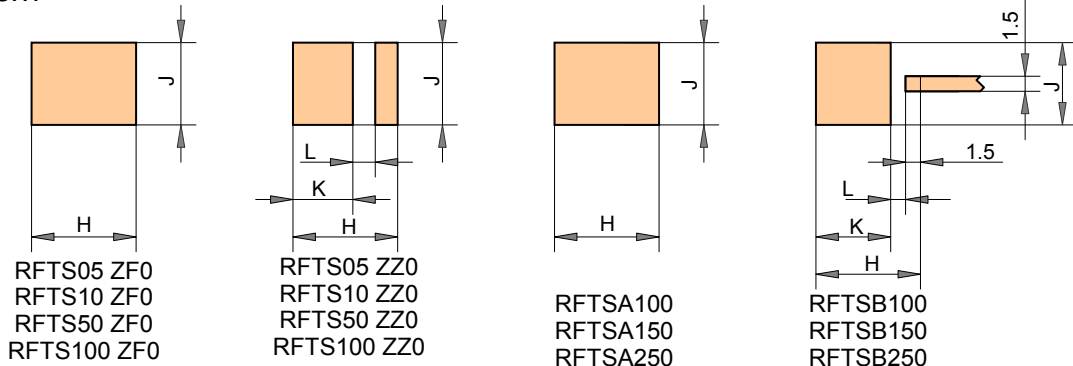
## Specifications and Performances

Type	RFTS 05	RFTS 10	RFTS 50	RFTS 100	RFTS 150	RFTS 250	Conditions
Rated Power (W)	5	30	50	100	150	250	
Maximum Power (W)	10	60	100	200	300	500	Pulse<1 second
Impedance (Ohms)	50 Ohms						
TCR (ppm/C)	50						
Tolerance (%)	1.0						
Heat Resistance (C/W)	12.5	6.5	2.5	1.3	1.0	0.5	
VSWR at 1GHz	1.15	1.15	1.2	1.2	1.2	1.2	
Max Operating Temperature	-55 - 155 deg C						
Storage Temperature	-55 - 155 deg C						

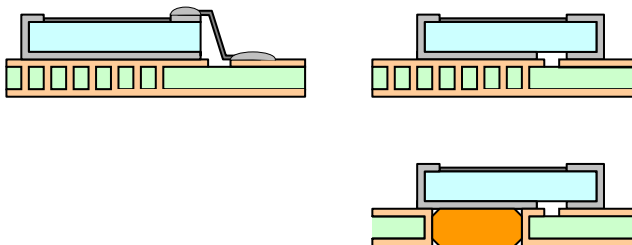
SURFACE MOUNT HIGH POWER TERMINATIONS

RFTS05, RFTS10, RFTS50, RFTS100,  
RFTSA100, RFTSA150, RFTSA250, RFTSB100, RFTSB150, RFTSB250

Foot Pattern



Installation

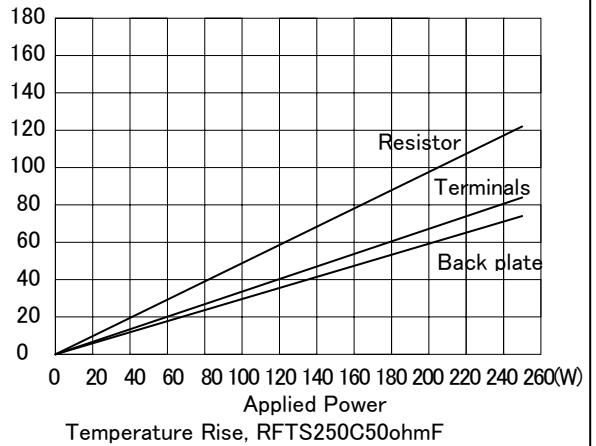
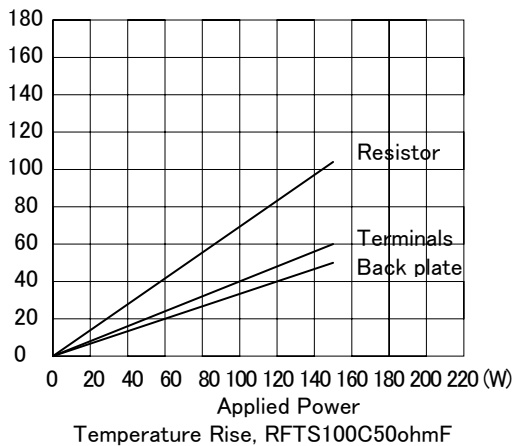
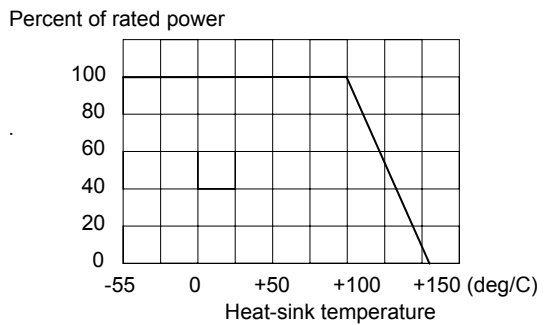


(mm)	H	J	K	L
RFTS05 ZF0	2.94	1.50	-	-
RFTS05 ZZ0	2.94	1.50	-	-
RFTS10 ZF0	5.48	2.94	-	-
RFTS10 ZZ0	5.48	2.94	(2.98)	0.5
RFTS50 ZF0	5.48	5.48	-	-
RFTS50 ZZ0	5.48	5.48	(2.98)	0.5
RFTS100 ZF0	6.24	9.29	-	-
RFTS100 ZZ0	6.24	9.29	(3.24)	0.5
RFTS150 010	6.75	9.92	--	---
RFTS150 020	6.75	9.92	(4.48)	0.5
RFTS250 010	9.92	9.92	--	-
RFTS250 020	9.92	9.92	(6.92)	0.5

Remarks

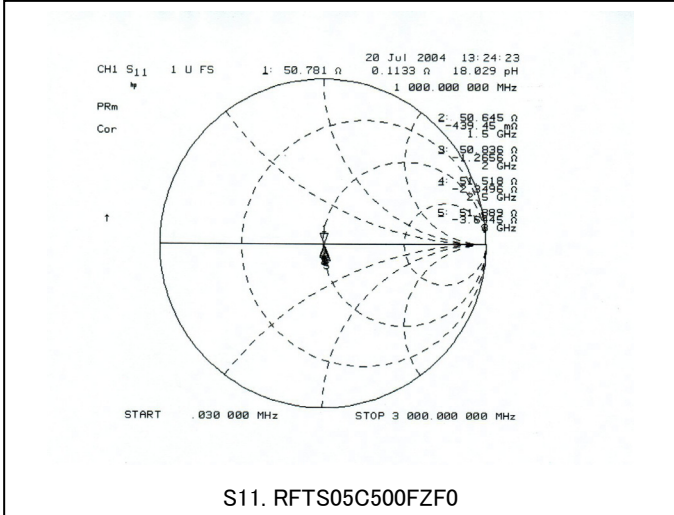
- (1) Power rating assumes that chip attached on metal insulated PC board.
- (2) Solder joint design should assure a solder thickness within 50 micron meters.
- (3) Cu inlet inserted in to circuit board will help effective heat conduction.

負荷軽減曲線 Derating Curve

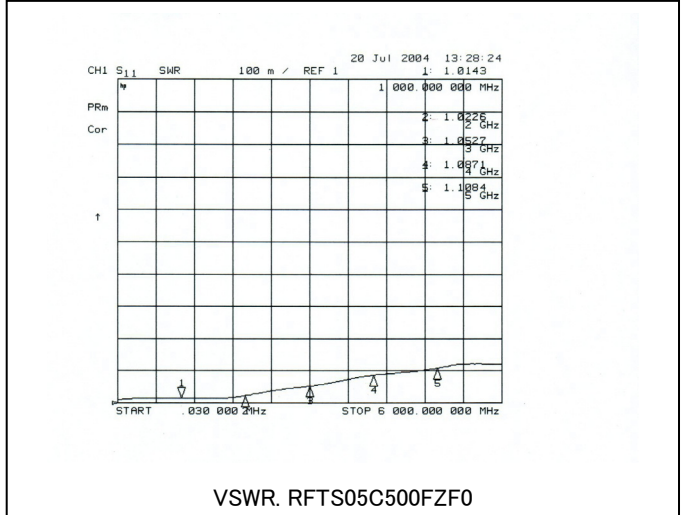


SURFACE MOUNT HIGH POWER TERMINATIONS

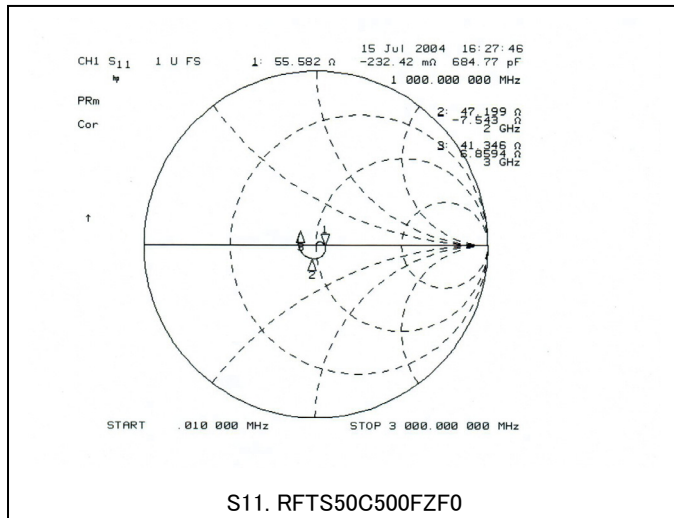
RFTS05, RFTS10, RFTS50, RFTS100,  
RFTSA100, RFTSA150, RFTSA250, RFTSB100, RFTSB150, RFTSB250



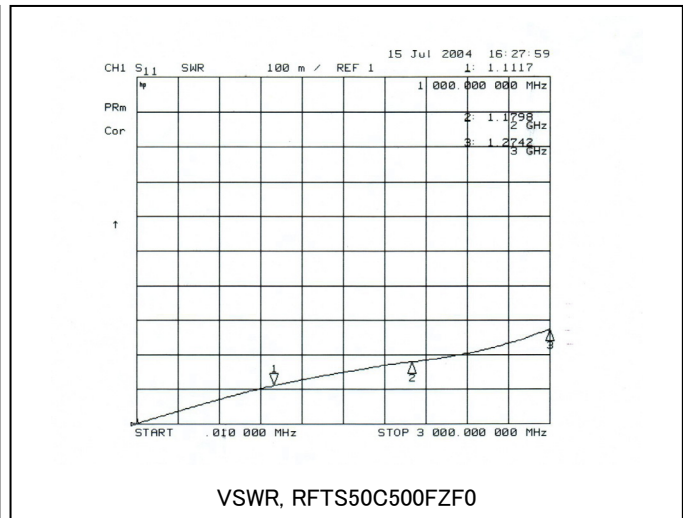
S11. RFTS05C500FZF0



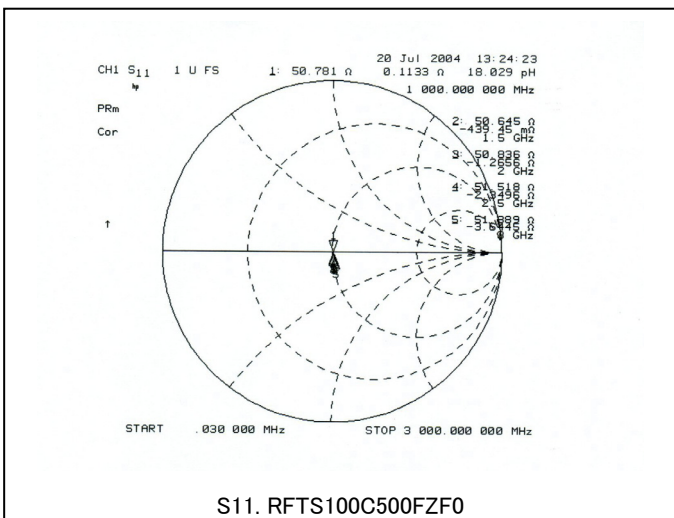
VSWR. RFTS05C500FZF0



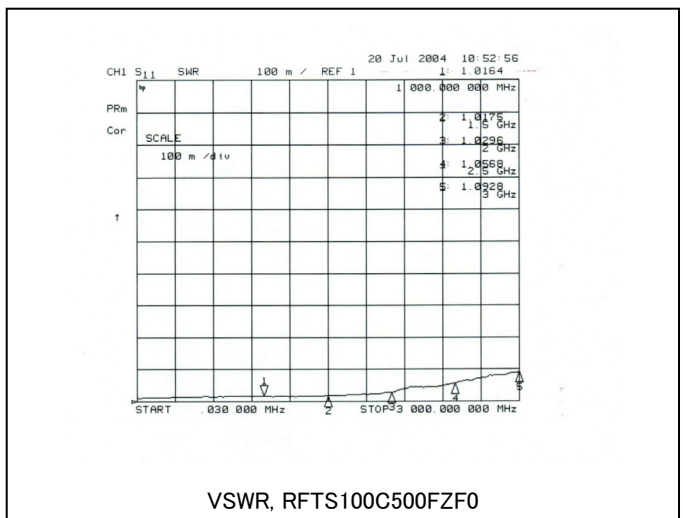
S11. RFTS50C500FZF0



VSWR, RFTS50C500FZF0



S11. RFTS100C500FZF0



VSWR, RFTS100C500FZF0