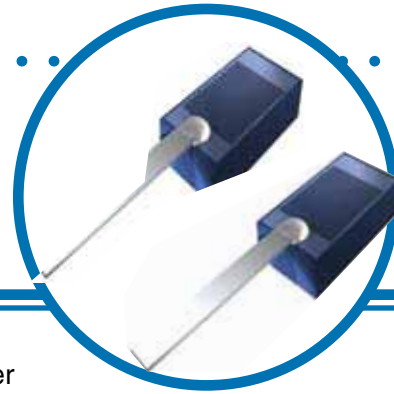


High Frequency, High Power Surface Mount Terminators

RFTL Series

- High power surface mount termination for DC up to 3GHz applications
- Small size and wide frequency range
- Long life and temperature stability resulting from thin film technology



The RFTL series of high power terminators offers maximum power dissipation in minimum size. Combining single lead construction with a rugged thin film element results in a terminator capable of dissipating power to 250 watts when heat-sinked. Operation to 3GHz is accomplished through the use of a computer designed thin film element on an aluminum nitride substrate.

Ohmic values from 50 ohms to 200 ohms suit the RFTL to a wide variety of RF and microwave applications. Applications for the RFTL include power splitters, power amplifiers, wide band RF and spread spectrum radio.

Electrical Data

Model	Resistance	TCR	VSWR @ 1GHz	Power Rating @ 100°C	Thermal Impedance °C/W	Tolerance	Operating Temperature	
RFTL05	50	50ppm/°C	1.15	5W	12.5	±1%	-55°C to +155°C	
RFTL10			1.15	10W	6.50			
RFTL20			1.15	20W	6.50			
RFTL30			1.15	30W	6.50			
RFTL50			100	1.2	50W			2.50
RFTL60			200	1.2	60W			2.10
RFTL100			1.2	100W	1.30			
RFTL100Y			1.2	100W	1.30			
RFTL250			1.2	250W	0.50			

Note:

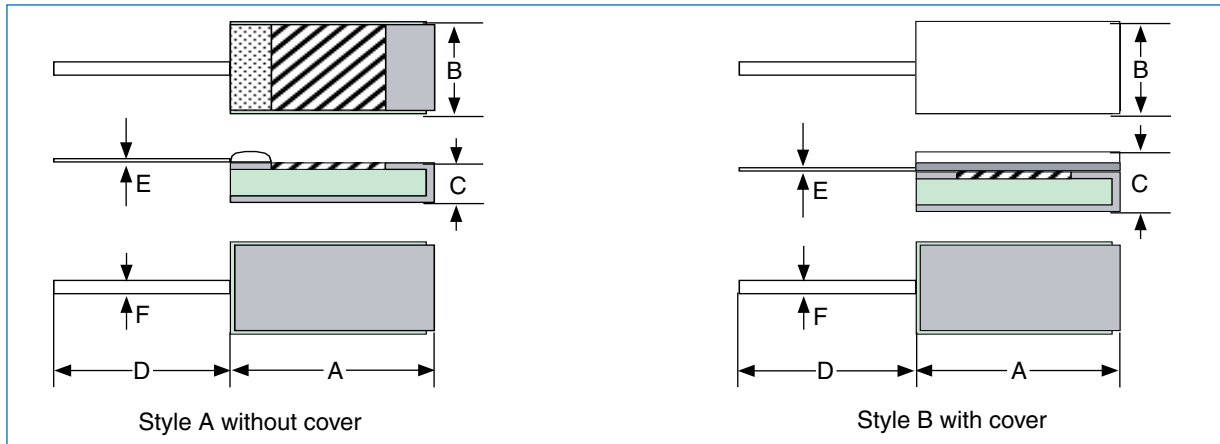
- (1) Rated power is based on part being solder mounted heat-sink plate at 100°C.
- (2) Termination has two terminals, one is plate tab terminal and other is backing plate that is to be solder mounted on to heat sink.

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.

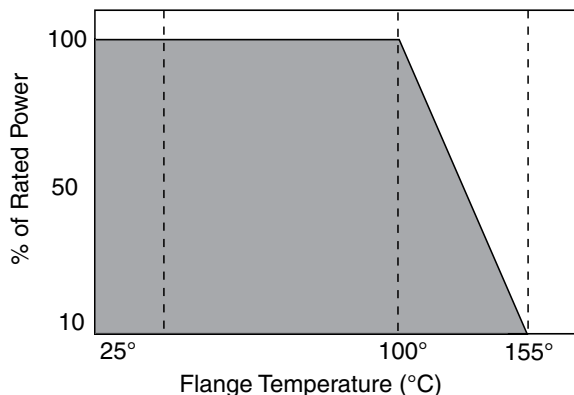
High Frequency, High Power Surface Mount Terminators

Physical Data



Dimension (mm)							
Model	Style	A	B	C	D	E	F
RFTL05	A	2.54	1.27	1.27	6.35	0.10	0.80
RFTL10	A	2.54	1.27	1.27	6.35	0.10	0.80
RFTL20	A	5.08	2.54	1.27	6.35	0.10	0.80
RFTL30	A	5.08	2.54	1.27	6.35	0.10	0.80
RFTL50	B	5.08	5.08	2.2 max	6.35	0.10	0.80
RFTL60	B	6.35	6.35	2.2 max	6.35	0.10	0.80
RFTL100	B	5.84	8.89	2.2 max	6.35	0.10	0.80
RFTL100Y	B	8.89	5.84	2.2 max	6.35	0.10	0.80
RFTL250	B	9.52	9.52	2.2 max	6.35	0.10	0.80

Power Derating Curve



Ordering Data

Prefix HFR - RFTL10 C 50 Ohm F

Model

RFTL05A; RFTL10A; RFTL20A; RFTL30A;
RFTL50B; RFTL60B; RFTL100B; RFTL100YB;
RFTL250B

TCR

C = ± 50 ppm/°C

Resistance

50 Ohm; 100 Ohm; 200 Ohm

Absolute Tolerance Code

F = $\pm 1\%$

For additional information or to discuss your specific requirements, please contact our Applications Team using the contact details below.