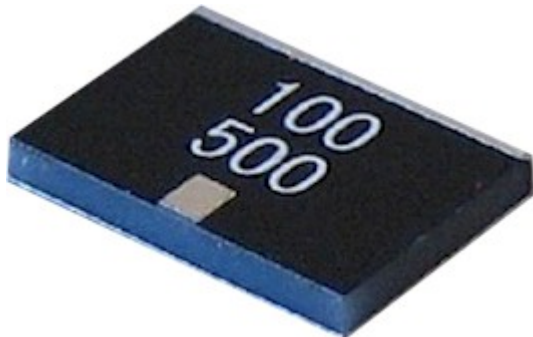


TFT
10W, 50W, 100W, 250W
HIGH POWER SMD TERMINATIONS
TFT010-0, TFT050-0, TFT100-0, TFT250-0



Features and Applications

These are high power, surface mount terminations for all DC circuits up to 5GHz. The small size and wide frequency range are attained with a large heat conducting AlN substrate. Sufficient mechanical strength is attained from spattered thin metallization. These are standard with a 50ohm resistance, a tolerance of 1% and 10W, 50W, 100W and 250W. Ni-Cr thin film technology ensures long life. Applications include: Terminations for isolator/circulators, fixed station of mobile communication electronics, and high power microwave amplifiers.

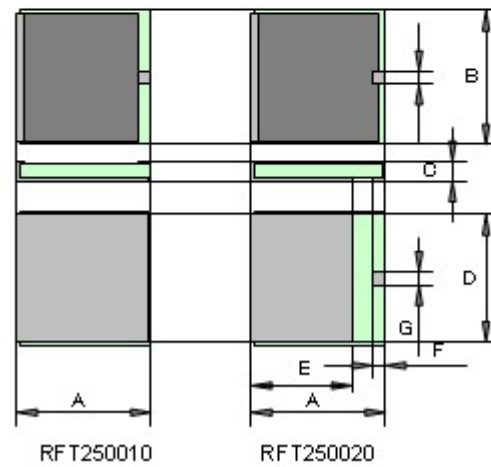
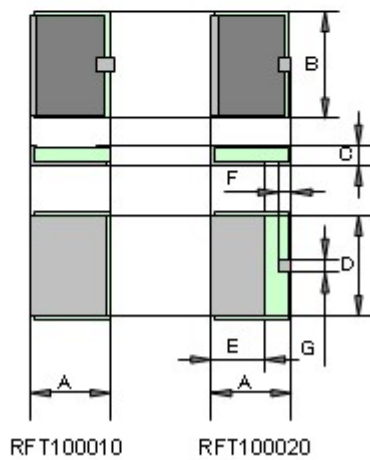
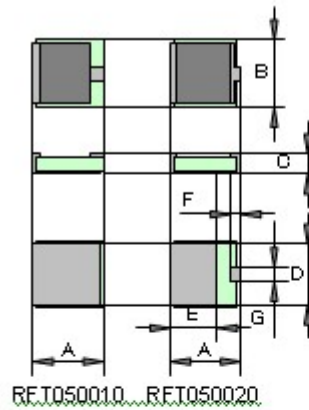
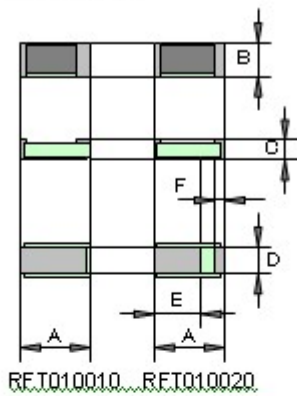
Ordering Information

Ordering P/N	Type	Outlook	TC	Resistance	Tolerance	Bulk/Tape	Remarks
RFT010 010C50 OhmFZ00	RFT010	010	C	50 Ohm	F	Z00-Z01	Bulk-Tape
RFT010 020C50 OhmFZ00	RFT010	020	C	50 Ohm	F	Z00-Z01	Bulk-Tape
RFT050 010C50 OhmFZ00	RFT050	010	C	50 Ohm	F	Z00-Z01	Bulk-Tape
RFT050 010C50 OhmFZ00	RFT050	020	C	50 Ohm	F	Z00-Z01	Bulk-Tape
RFT100 010C50 OhmFZ00	RFT100	010	C	50 Ohm	F	Z00-Z01	Bulk-Tape
RFT100 020C50 OhmFZ00	RFT100	020	C	50 Ohm	F	Z00-Z01	Bulk-Tape
RFT250 010C50 OhmFZ00	RFT250	010	C	50 Ohm	F	Z00-Z01	Bulk-Tape
RFT250 020C50 OhmFZ00	RFT250	020	C	50 Ohm	F	Z00-Z01	Bulk-Tape

Specifications and Performances

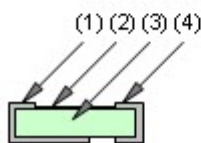
Type	RFT010	RFT050	RFT100	RFT250	Conditions
Rated Power (W)	10	30	100	250	-55 - +100 deg C
Maximum Power (W)	20	50	200	500	Pulse < 1 second
Resistance (Std) Ohm	50 Ohms				
TC (ppm/deg C)	50				
Tolerance (%)	1.0				
Heat Resistance (deg CW)	6.5	2.5	1.3	0.5	
VSWR at 1GHz	1.15	1.15	1.20	1.20	
Max Operating Temperature	-55-155 deg C				
Storage Temperature	-55-155 deg C				

Style and Dimension



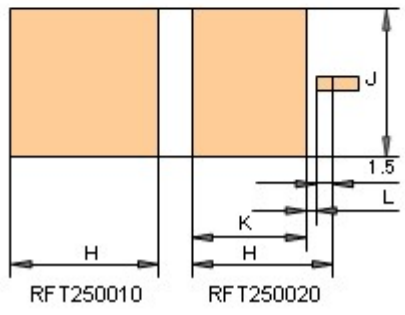
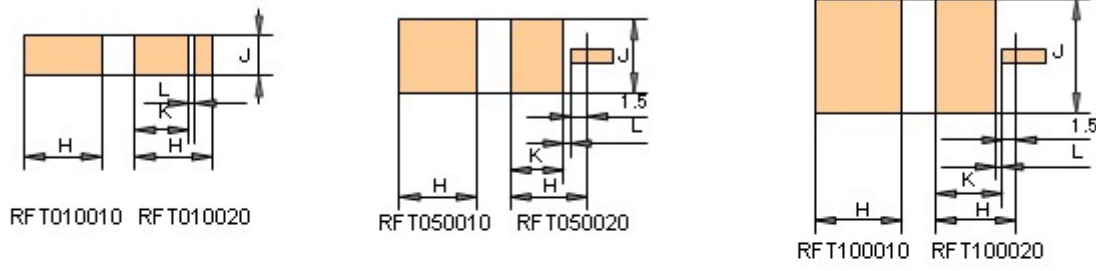
Type	Power	A	B	C	D	E	F	G
RFT010 01 0	10W	5.08	2.54	1.06	2.34	-	1.27	1.27
RFT010 02 0		5.08	2.54	1.06	2.30	2.54	1.27	1.27
RFT050 01 0	50W	5.08	5.08	1.06	4.84	-	1.27	1.27
RFT050 02 0		5.08	5.08	1.06	4.84	2.54	1.27	1.27
RFT1 00 01 0	100W	5.84	8.89	1.06	8.49	-	1.27	1.27
RFT1 00 02 0		5.84	8.89	1.06	8.49	6.35	1.27	1.27
RFT250 01 0	250W	9.52	9.52	1.06	9.12	-	1.27	1.27
RFT250 02 0		9.52	9.52	1.06	9.12	6.98	1.27	1.27

Materials

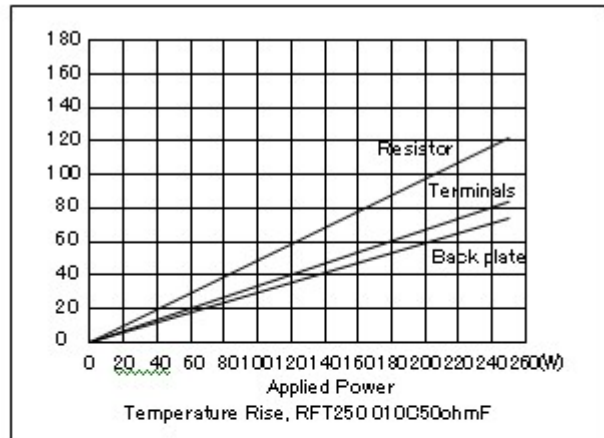
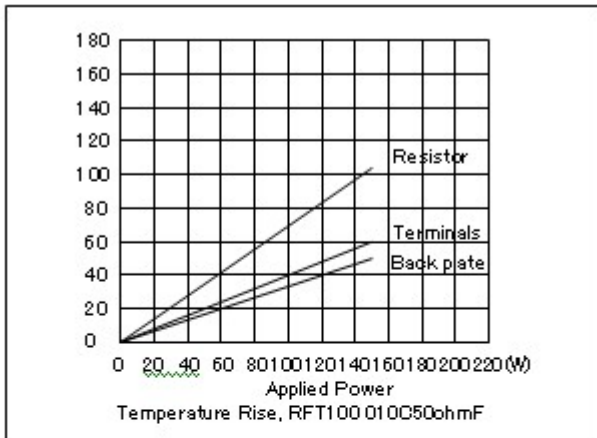


	Substance	Material
(1)	Cold end Terminal	Tin plated Ni-Cu
(2)	Resistive	Ni-Cr
(3)	Substrate	ALN
(4)	Hot end Terminal	Tin plated Ni-Cu

Foot Pattern Design



	H	J	K	L
RFT010 01 0	5.48	2.94	-	-
RFT010 02 0	5.48	2.94	(2.98)	1.0
RFT050 01 0	5.48	5.48	-	-
RFT050 02 0	5.48	5.48	(2.98)	1.0
RFT1 00 01 0	6.24	9.29	-	-
RFT1 00 02 0	6.24	9.29	(3.24)	1.5
RFT250 01 0	9.92	9.92	-	-
RFT250 02 0	9.92	9.92	(6.92)	1.5



Note:
 (1) Other resistance value and substrate thickness are available. Please consult NIKKOH factory.
 (2) Power rating assumes that chip attached on metal plate.
 (3) Solder joint design should assure a solder thickness within 50 micron meters.

