

TFT (FLANGED)

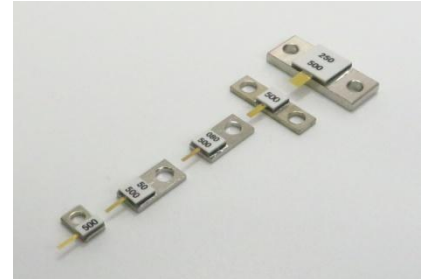
Power Flange Terminations

Features and Applications

High power flanged termination for all DC up to 4Ghz applications.

Small size and wide frequency range specifications realized with through large heat conducting AlN substrate. Sufficient mechanical strength metallization from spattered thin film technology. 50ohm resistance with tolerance of 1%, and terminations include chips and many style flange provided as standard, and other resistance and power available. Long life and temperature stability are shown by a result of Ni-Cr thin film technology.

Applications include terminations for isolator/circulators, base station of mobile communication electronics, high power microwave amplifiers.



GENERAL SPECIFICATIONS

Model	Power Rating [W]	*Maximum Power [W]	Resistance Range [Ω]	Resistance Tolerance [%]
TFT010	10	20	50	1.0
TFT050	50	100	50	1.0
TFT100	100	200	50	1.0
TFT250	250	500	50	1.0

* Test conditions : Pulse < 1second

CHARACTERISTICS

Model	TFT010	TFT050	TFT100	TFT250
Max Operating Temperature	-55°C to +155°C			
Temp. Coefficient	± 50 ppm/°C			
Heat Resistance	6.5°C/W	2.5°C/W	1.3°C/W	0.5°C/W
VSWR at 1GHz	1.15	1.15	1.20	1.30
Storage Temperature	-55°C to +155°C			

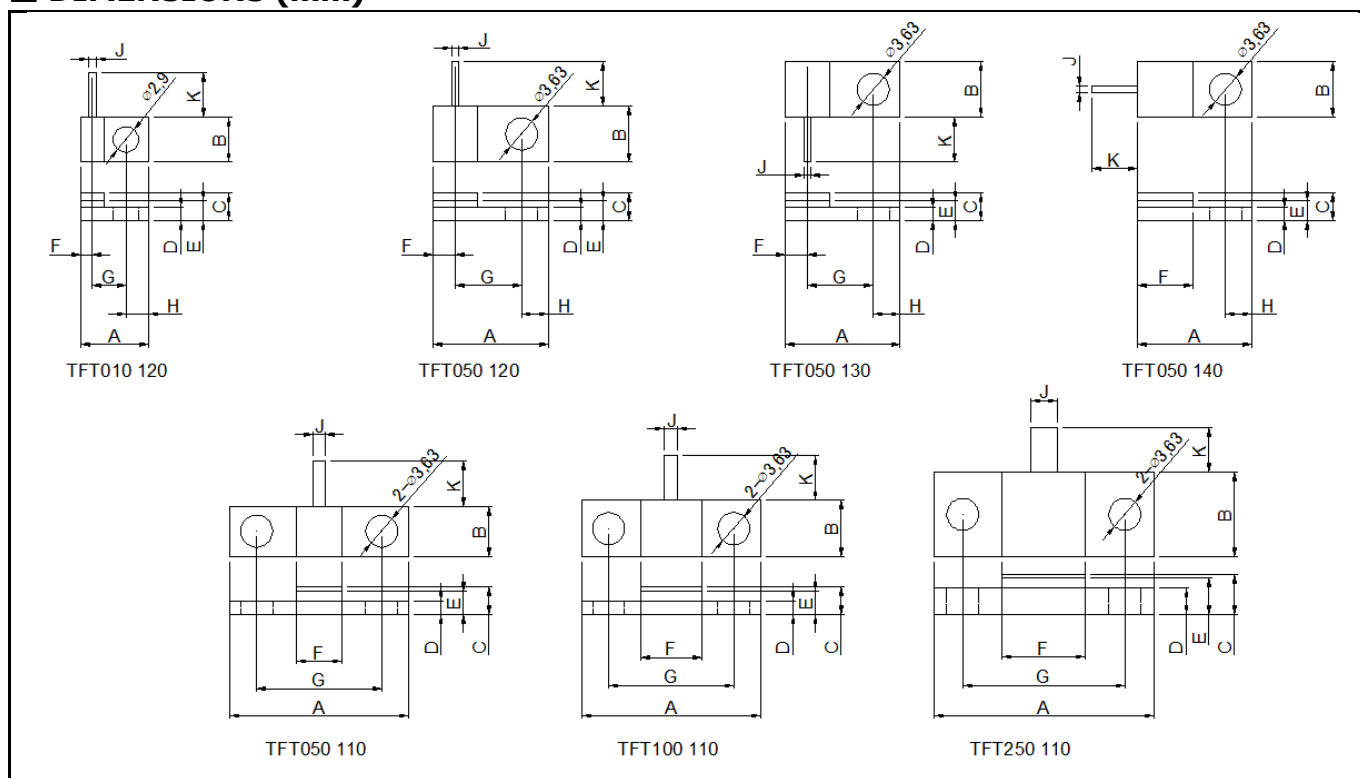
MATERIALS

	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
(5)	Cover	ALO
(6)	Flange	Ni plated Cu
(7)	Beam Lead	Au plated Cu

ORDERING PROCEDURE EXAMPLE

Ordering Example	Model	Outlook	TCR	Resistance	Tolerance	Tray	Remarks
TFT010 120C50ohmFZ 00	TFT010	120	C (50ppm/°C)	50Ω	F (1%)	Z05	Tray
TFT050 110C50ohmFZ 00	TFT050	110	C (50ppm/°C)	50Ω	F (1%)	Z05	Tray
TFT050 120C50ohmFZ 00	TFT050	120	C (50ppm/°C)	50Ω	F (1%)	Z05	Tray
TFT050 130C50ohmFZ 00	TFT050	130	C (50ppm/°C)	50Ω	F (1%)	Z05	Tray
TFT050 140C50ohmFZ 00	TFT050	140	C (50ppm/°C)	50Ω	F (1%)	Z05	Tray
TFT100 110C50ohmFZ 00	TFT100	110	C (50ppm/°C)	50Ω	F (1%)	Z05	Tray
TFT250 110C50ohmFZ 00	TFT250	110	C (50ppm/°C)	50Ω	F (1%)	Z05	Tray

DIMENSIONS (mm)



	A±0.1	B±0.1	C±0.1	D±0.1	E±0.1	F±0.1	G±0.1	H±0.1	J±0.1	K±0.2
TFT010	7.62	5.10	3.10	1.50	2.20	(1.28)	3.80	2.54	0.80	5.08
TFT050 120-130	13.08	6.35	3.10	1.50	2.20	(2.54)	7.49	3.05	0.80	5.08
TFT050 140	13.08	6.35	3.10	1.50	2.20	6.35	-	3.05	0.80	5.08
TFT050 110	20.30	5.70	3.10	1.50	2.60	5.08	14.20	-	1.50	5.08
TFT100	20.30	6.35	3.10	1.50	2.60	7.00	14.20	-	1.50	5.08
TFT250	25.00	9.53	4.50	3.00	4.10	9.52	18.42	-	3.00	5.08