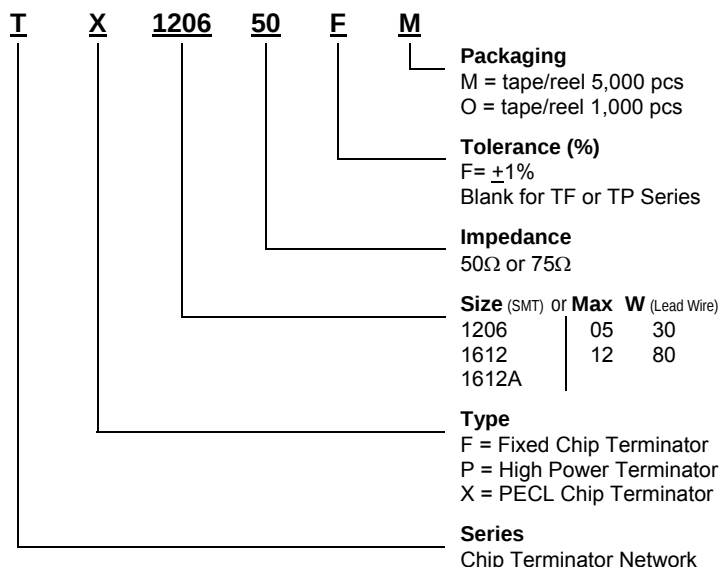


HOW TO ORDER

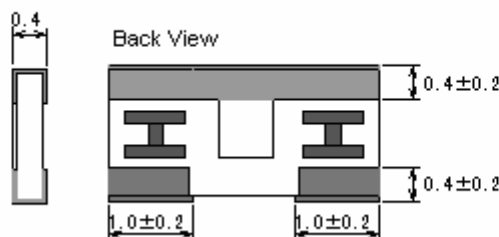
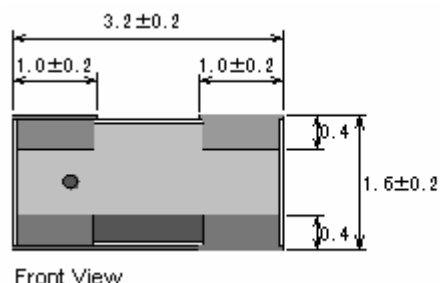


■ PECL Chip Terminator

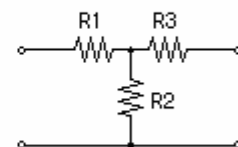
ELECTRICAL CHARACTERISTICS

Series	TX1206
Size	1206
Typical Resistance Value	R1 : 50 Ω , R2 : 46.4 Ω , R3 : 50 Ω
Resistance Tolerance	$\pm 1.0\%$
TCR	$\pm 50\text{ppm}/^\circ\text{C}$
Power Rating per Element	42mW
Power Rating per Package	125mW
Max Rated Operating Temp	70 $^\circ\text{C}$
Operating Temperature	-55 $^\circ\text{C}$ ~ +125 $^\circ\text{C}$
Storage Temperature	-55 $^\circ\text{C}$ ~ +125 $^\circ\text{C}$

MECHANICAL DIAGRAM



TX1206 Series



Unit Measurement = mm

PECL Chip Terminator

- This surface mount chip resistor network is for termination of Positive Emitter Coupled Logic (PECL) circuits
- EMI/RFI attenuation
- Reduced board space
- Better tracking of electrical parameters

Fixed Chip Terminator

- Exhibits high frequency characteristics
- The surface mount package is ideal for low noise, and parasitic capacitance applications
- The thin film metallization also offer very stable characteristics over temperature and time
- High-Precision, high-frequency chip resistors

Power Chip Terminator

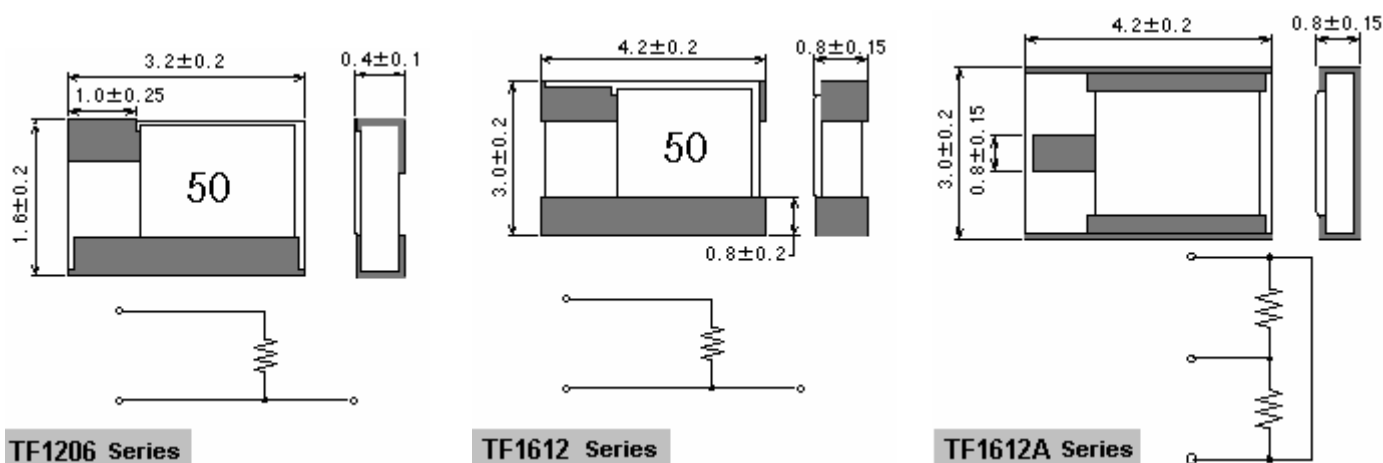
- The high power thin film terminators exhibit excellent high frequency characteristics
- Installing on heat sink will allow for operation with her power ratings
- From 1W to 80W power rating

■ Fixed Chip Terminator

ELECTRICAL CHARACTERISTICS

Series	TF18		TF28		TF28A	
Size	1206		1612		1612	
Characteristic Impedance	50 Ω	75 Ω	50 Ω	75 Ω	50 Ω	75 Ω
VSWR	1.1	1.2	1.1	1.2	1.1 DC~3GHz	1.3 DC~10GHz
Frequency Range	DC~3GHz	DC~2GHz	DC~3GHz	DC~2GHz	DC~10GHz	
TCR	$\pm 50\text{ppm}/^\circ\text{C}$		$\pm 50\text{ppm}/^\circ\text{C}$		$\pm 50\text{ppm}/^\circ\text{C}$	
Max Rated Operating Temp	70 $^\circ\text{C}$		70 $^\circ\text{C}$		70 $^\circ\text{C}$	
Operating Temperature	-55 $^\circ\text{C}$ ~ +125 $^\circ\text{C}$		-55 $^\circ\text{C}$ ~ +125 $^\circ\text{C}$		-55 $^\circ\text{C}$ ~ +125 $^\circ\text{C}$	

MECHANICAL DIAGRAM (mm)



ENVIRONMENTAL PERFORMANCE

Item	Test Condition	Requirements
Short-time Overload	Rated Voltage $\times$ 2.5, 5sec.	+/- (0.2% + 0.05 ohm)
Resistance to Soldering Heat	260 +/- 5 $^\circ\text{C}$, 10 +/- 1sec.	+/- (0.2% + 0.05 ohm)
Temperature Cycle	-55 $^\circ\text{C}$ $\leftrightarrow$ +125 $^\circ\text{C}$, 5 cycles	+/- (0.2% + 0.05 ohm)
Moisture Load Life	40 +/- 2 $^\circ\text{C}$ 90 ~ 95%, 1000H	+/- (0.2% + 0.05 ohm)
Load Life	70 +/- 3 $^\circ\text{C}$, 1000H	+/- (0.2% + 0.05 ohm)
Insulation Resistance	DC 500V, 1 min.	> 1,000 M ohm

DERATING CURVE – TX & TF Series

For resistors operated at ambient temperature over 70 $^\circ\text{C}$, power rating shall be derated in accordance with figure 1.

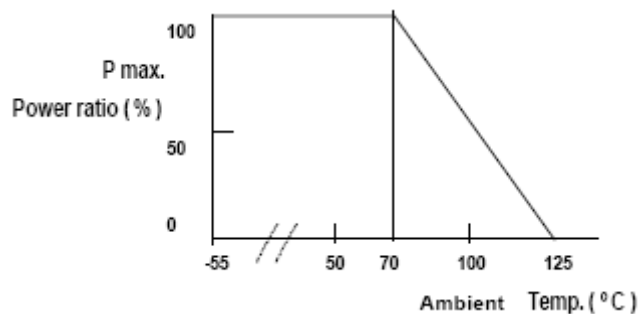
The rated voltage is calculated by the following formula:

$$E = \sqrt{P \times R}$$

E=Rated Voltage(V)

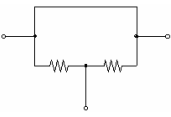
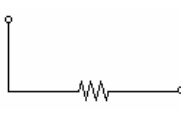
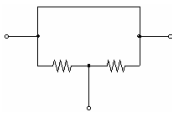
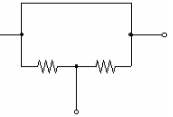
P=Rated Power(W)

R=Resistance Value(Ω)

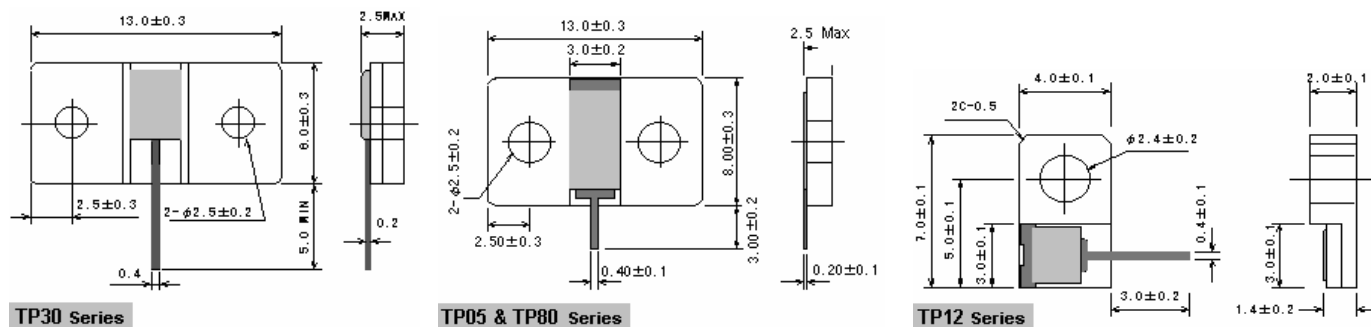


High Power Terminator

ELECTRICAL CHARACTERISTICS

Series	TP05	TP12	TP30	TP80
Circuit Schematic				
Characteristic Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	1.1 DC ~ 3GHz 1.3 3GHz ~ 10GHz	1.1 Max	1.1 DC ~ 3GHz 1.3 3GHz ~ 10GHz	1.2 Max
Frequency Range	DC ~ 10GHz	DC ~ 2.1GHz	DC ~ 10GHz	DC ~ 1.5GHz
Typical Power Rating	1W	1W	1.5W	1.5W
Max Power Rating	5W	12.5W	30W	80W
TCR	$\pm 50\text{ppm}/^\circ\text{C}$	$\pm 50\text{ppm}/^\circ\text{C}$	$\pm 50\text{ppm}/^\circ\text{C}$	$\pm 50\text{ppm}/^\circ\text{C}$
Max Heat Sink Temp at Max Rated Power	70°C	80°C	70°C	65°C
Operating Temperature	-55°C ~ +125°C	-55°C ~ +80°C	-55°C ~ +125°C	-55°C ~ +125°C

MECHANICAL DIAGRAM (mm)



ENVIRONMENTAL PERFORMANCE

Item	Power Terminator Series	Test Condition	Requirements
Short Time Overload	TP12.5, TP80	Rated Voltage x 2.5, 5 seconds	$\pm (0.5\% + 0.05\Omega)$
	TP05, TP30		$\pm (0.2\% + 0.05\Omega)$
Resistance to Soldering Heat	TP12.5, TP80	250°C $\pm$ 5°C, 10 $\pm$ 1 second	$\pm (0.5\% + 0.05\Omega)$
	TP05, TP30	350°C $\pm$ 5°C, 3 $\pm$ 0.5 second	$\pm (0.2\% + 0.05\Omega)$
Solderability	TP12.5, TP80	235°C $\pm$ 5°C, 3 $\pm$ 0.5 second	>95%
	TP05, TP30		
Temperature Cycle	TP12.5, TP80	-10°C 30 min, R.T. 3 min 70°C 30 min R.T. 3 min, 5 cycles	$\pm (0.5\% + 0.05\Omega)$
	TP05, TP30	-55°C ~ +125°C, 5 cycles	$\pm (0.2\% + 0.05\Omega)$
Moisture Load Life	TP12.5, TP80	40°C $\pm$ 5°C, 90~95%, Rated Voltage 90 min on, 30 min off for 1000 hours	$\pm (1.0\% + 0.05\Omega)$
	TP05, TP30		$\pm (0.2\% + 0.05\Omega)$
Load Life	TP12.5, TP80	40°C $\pm$ 2°C, Rated Voltage. 90 min on, 30 min off for 1000 hours	$\pm (1.0\% + 0.05\Omega)$
	TP05, TP30	70°C $\pm$ 3°C, for 1000 hours	$\pm (0.2\% + 0.05\Omega)$
Insulation Resistance	TP12.5, TP80, TP05, TP30	DC 500V, 1 minute	> 1,000 M Ω