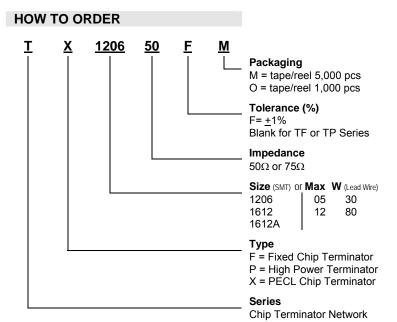


CHIP TERMINATOR NETWORK – PECL, Fixed, & Power



The content of this specification may change without notification 11/18/05 Custom solutions are available.



■ PECL Chip Terminator

ELECTRICAL CHARACTERISTICS

Series	TX1206		
Size	1206		
Typical Resistance Value	R1 : 50 Ω, R2 : 46.4 Ω, R3 : 50 Ω		
Resistance Tolerance	±1.0 %		
TCR	±50ppm/℃		
Power Rating per Element	42mW		
Power Rating per Package	125mW		
Max Rated Operating Temp	70℃		
Operating Temperature	-55°C ~ +125°C		
Storage Temperature	-55℃ ~ +125℃		

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

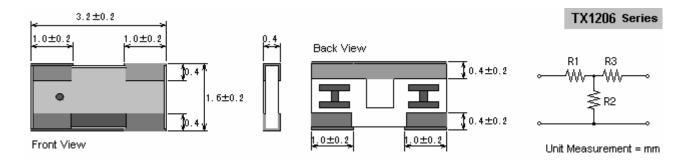
Fixed Chip Terminator

- 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

MECHANICAL DIAGRAM





CHIP TERMINATOR NETWORK – PECL, Fixed, & Power

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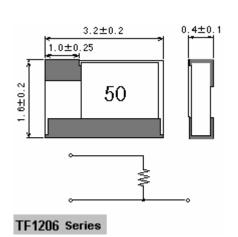


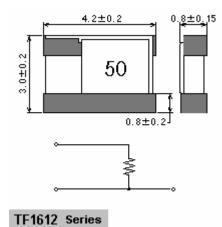
■ Fixed Chip Terminator

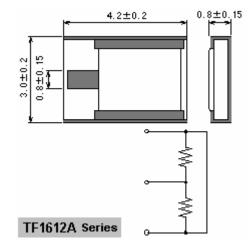
ELECTRICAL CHARACTERISTICS

Series	TF18		TF28		TF28A		
Size	1206		16	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	±50ppm/°C		±50ppm/°C		±50ppm/℃		
Max Rated Operating Temp	70℃		70℃		70℃		
Operating Temperature	-55℃ ~ +125℃		-55°C ~ +125°C		-55℃ ~ +125℃		

MECHANICAL DIAGRAM (mm)







ENVIRONMENTAL PERFORMANCE

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

DERATING CURVE - TX & TF Series

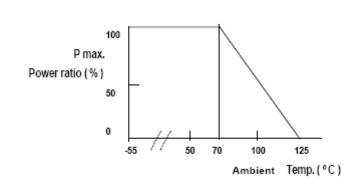
For resistors operated at ambient temperature over 70° C, power rating shall be derated in accordance with figure 1.

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)





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CHIP TERMINATOR NETWORK – PECL, Fixed, & Power

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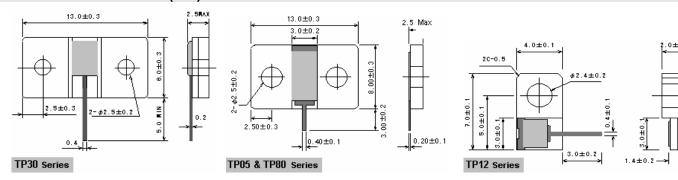


■ High Power Terminator

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	±50ppm/℃	±50ppm/℃	±50ppm/℃	±50ppm/℃
Max Heat Sink Temp at Max Rated Power	70℃	80℃	70°C	65 ℃
Operating Temperature	-55℃ ~ +125℃	-55℃ ~ +80℃	-55℃ ~ +125℃	-55℃ ~ +125℃

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	± (0.5% + 0.05Ω)
	TP05, TP30	Rated Voltage X 2.5, 5 Seconds	± (0.2% + 0.05Ω)
Resistance to Soldering Heat	TP12.5, TP80	250°C ± 5°C, 10 ± 1 second	± (0.5% + 0.05Ω)
	TP05, TP30	350°C ± 5°C, 3 ± 0.5 second	± (0.2% + 0.05Ω)
Solderability	TP12.5, TP80	235°C ± 5°C, 3 ± 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	± (0.5% + 0.05Ω)
	TP05, TP30	-55°C ~ +125°C, 5 cycles	± (0.2% + 0.05Ω)
Moisture Load Life	TP12.5, TP80	40°C ± 5°C, 90~95%, Rated Voltage 90 min on, 30 min off for 1000 hours	± (1.0% + 0.05Ω)
	TP05, TP30		± (0.2% + 0.05Ω)
Load Life	TP12.5, TP80	40°C ± 2°C, Rated Voltage. 90 min on, 30 min off for 1000 hours	± (1.0% + 0.05Ω)
	TP05, TP30	$70^{\circ}\text{C} \pm 3^{\circ}\text{C}$, for 1000 hours	± (0.2% + 0.05Ω)
Insulation Resistance	TP12.5, TP80, TP05, TP30	DC 500V, 1 minute	> 1,000 M Ω



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