

TLR-2B, 2H, 3AW

metal plate current sense resistor

applications and ratings

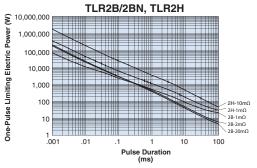
Part Designation	Power Rating	Rated Ambient Temperature	Rated Terminal Part Temperature	T.C.R. (ppm/°C) Max.*	Standard Resistance (Ω)	Resistance Tolerance	Operating Temperature Range
TI DOD				±50	2m,3m,4m,5m,6m,7m,8m, 9m,10m,11m,12m,13m, 15m,16m,18m,20m		
TLR2B	1/2W (.5W)	70°C	105°C	±75	1m,1.5m,2m,3m,4m,5m, 6m,7m,8m,9m,10m,11m, 12m,13m,15m,16m,18m,20m	F: ±1%	-65°C to +155°C** -65°C to +170°C**
TLR2BN				±150	1m,1.5m,2m,3m,4m,5m, 6m,7m,8m,10m,11m, 12m,13m,15m,16m,18m,20m		
TLR2H	1W	70°C	105°C	±50	1m,2m,3m,4m,5m,	F: ±1%	-65°C to +155°C**
ILNZII	IVV	70°C		±75	6m,7m,8m,9m,10m	Γ. ±1%	-65°C to +170°C**
				±50	2m,3m,4m,5m, 6m,7m,8m,9m,10m		0500 +45500**
TLR3AW	2W	70°C	105°C	±75	0.5m,0.68m,0.75m,0.82m, 1m,1.5m,2m*,3m,4m,	F: ±1%	-65°C to +155°C**
				±150	5m,6m,7m,8m,9m,10m		-65°C to +170°C**

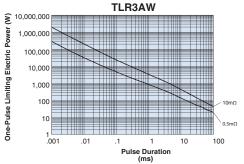
^{*} Contact factory for $2m\Omega$ dimensions

If any questions should arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating curves on the terminal part temperature" in the beginning of the catalog.

environmental applications

One-Pulse Limiting Electric Power





The maximum applicable voltage is equal to the max. overload voltage.

Please ask us about the resistance characteristic of continuous applied pulse.

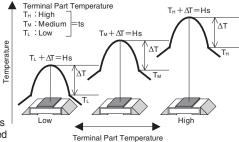
The pulse endurance values are not assured values, so be sure to check the products on actual equipment when you use them.

Thermal Resistance

Туре	Size	Resistance (Ω)	Rth (°C/W)
TLR		1m	7.2
	2B 2BN	2m	18.3
	2011	20m	116
	01.1	1m	17
	2H	10m	61.1
	3AW	0.5m	6
	3AVV	10m	62

Rth=(Hs-ts)/Power

Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions. Please refer to us before use.



The temperature of the resistor will increase the same ⊿T from the standard terminal part temperature regardlless of the ambient temperature when the same power is applied. This is because there is hardly any heat dissipation from the resistor surface to the ambient air.

Performance Characteristics

	Requirement Δ R ±%			
Parameter	Limit	Typical	Test Method	
Resistance	Within regulated tolerance	_	25°C	
T.C.R.	Within specified T.C.R.	_	+25°C/+125°C	
Resistance to Solder Heat	±0.5%	±0.3%	260°C ± 5°C, 10 seconds +2/-0 seconds	
Rapid Change of Temperature	±0.5%	±0.4%	-55°C (15 minutes), +150°C (15 minutes), 1000 cycles	
Moisture Resistance	±0.5%	±0.1%	MIL-STD-202, Method 106, 0% power, 7a and 7b not required	
Biased Humidity	±0.5%	±0.1%	85°C ± 2°C, 85% RH, 1000 hours, 10% bias	
Endurance (Ambient Temp.)	±1.0%	±0.3%	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle	
High Temperature Exposure**	±1.0%	±0.6%	±155°C (2B, 2H, 3AW), 1000 hours	
l light temperature Exposure	±2.0%	_	±170°C (2B, 2H, 3AW), 1000 hours	

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

12/10/20

^{**} Please reference High Temperature Performance Characteristics in the below table