

R-2B, 2H, 3A, 3,

metal plate current sense resistor

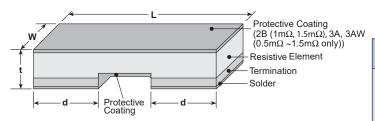




features

- Ultra-low TCR (+50ppm/°C) available
- Metal alloy: superior corrosion and heat resistance
- · Applications include current sensing, voltage division and pulse applications
- Ultra low resistance $(0.5m\Omega 20m\Omega)$
- Suitable for reflow soldering (Not suitable for flow soldering)
- Products with lead-free terminations meet EU RoHS and China RoHS requirements
- AEC-Q200 Qualified

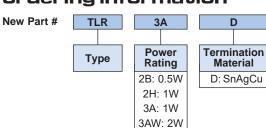
dimensions and construction



Size		Dimensions inches (mm)				
Code	Resistance	L	W	d	t	
	1m New 1.5m		.063±.008 (1.60±0.20)	.043±.008 (1.10±0.20)		
TLR2B	2m,3m,4m,5m, 6m,7m,8m,9m, 10m,11m,12m, 13m,15m,16m, 18m,20m	.126±.008 (3.20±0.20)		.020±.008 (0.50±0.20)	.024±.008 (0.60±0.20)	
	1m		.071±.008 (1.80±0.20)	.026±.008 (0.65±0.20)		
TLR2H	2m - 6m	.200±.008 (5.00±0.20)	.100±.008 (2.50±0.20)	.060±.008 (1.50±0.20)	.024±.008	
	7m - 10m			.020±.008 (0.50±0.20)	(0.60±0.20)	

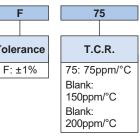
Size		Dimensions inches (mm)				
Code	Resistance	L	W	d	t	
TLR3A	1mΩ			.087±.01 (2.20±0.25)		
	2mΩ	.25±.01	.125±.01	.047±.01 (1.20±0.25)	.024±.01 (0.62±0.25)	
	3 m Ω	(6.35±0.25)	(3.18±0.25)	.073±.01 (1.85±0.25)		
	4mΩ			.047±.01 (1.20±0.25)		
TLR3AW	$0.5 \text{m}\Omega$.107±.01 (2.725±0.25)		
	0.68 m Ω , 0.75 m Ω , 0.82 m Ω ,			.105±.01 (2.675±0.25) .087±.01 (2.20±0.25)	.024±.01 (0.60±0.25)	
	1 m Ω , 1.5 m Ω , 2 m Ω , 3 m Ω , 4 m Ω	.25±.01 (6.35±0.25)	.125±.01 (3.18±0.25)			
	5 m Ω , 6 m Ω , 7 m Ω , 8 m Ω			.047±.01 (1.20±0.25)		
	9m Ω , 10m Ω			.030±.01 (0.77±0.25)		

ordering information



TE	2L00
Packaging	Nominal Resistance
TE: 7" 8mm pitch embossed plastic (3A, 3AW) TE: 7" 4mm pitch embossed plastic (2H only) TD: 7" 4mm pitch punched paper (2B only)	±1%: 4 digits All values less than 0.1Ω (100m) are expressed in mW with "L" as decimal

2L00	F
Nominal Resistance	Tolerance
±1%: 4 digits	F: ±1%
All values less han 0.1Ω (100m) are expressed in mW with "L" as decimal	
Ex: $2m\Omega = 2L00$	



For further information on packaging, please refer to Appendix A.

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



TLR-2B, 2H, 3A, 3AW

metal plate current sense resistor

applications and ratings

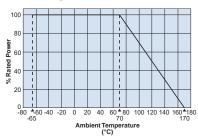
Part Designation	Power Rating	Rated Ambient Temperature	Rated Terminal Part Temperature	T.C.R. (ppm/°C) Max.*	Standard Resistance (Ω)	Resistance Tolerance	Operating Temperature Range
TLR2B	1/2W (.5W)	70°C	105°C	±75	1m,1.5m,2m,3m,4m,5m, 6m,7m,8m,9m,10m,11m, 12m,13m,15m,16m,18m,20m	F: ±1%	-65°C to +170°C
TLR2H	1W	70°C	105°C	±75	1m,2m,3m,4m,5m, 6m,7m,8m,9m,10m	F: ±1%	-65°C to +170°C
TLR3A	1W 70°C	70°C 105°C	105°C	±150	1m, 2m	F: ±1%	-65°C to +170°C
ILK3A				±200	3m, 4m	F: ±1%	-65 C to +170 C
TLR3AW	2W	70°C	105°C	±75	0.5m,0.68m,0.75m,0.82m, 1m,1.5m,2m**,3m,4m, 5m,6m,7m,8m,9m,10m	F: ±1%	-65°C to +170°C
				±150	5111,6111,7111,8m,9m,10m		-65°C to +155°C

^{*} Please contact factory for T.C.R.: ± 50 ppm/°C ** Contact factory for 2m Ω dimensions

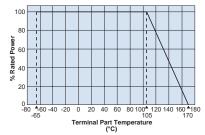
If any questions should arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating curves on the terminal part temperature" in the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

environmental applications

Derating Curve



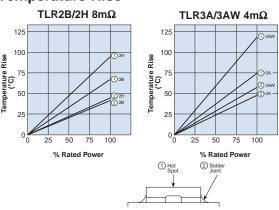
For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the above derating curve.



For resistors operated at a terminal part temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve.

Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog before use.

Temperature Rise



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.

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 ~ 12 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), ±170°C (3A), 1000 hours
Tilgit terriperature Exposure	±2.0%	_	±170°C (2B, 2H, 3AW), 1000 hours

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