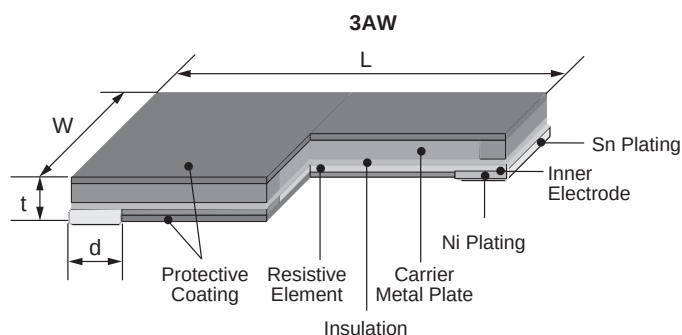
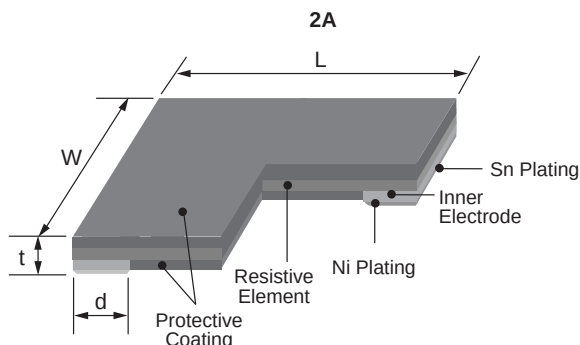


features

- SMD Type of small size, low resistance resistor for current detection
- Carrier metal plate inside, resistor of high radiation of heat structure (3AW, 3AP)
- High reliability and performance with low T.C.R.
- Automatic mounting machines are applicable (Not applicable for flow soldering)
- Body color: Black protective top coating,
2A: no marking; 3AW 4 digit marking
- Products with lead-free terminations meet EU RoHS requirements
- AEC-Q200 Qualified

dimensions and construction



Size Code (Inch)	Dimensions inches (mm)			
L	W	d	t	
TLRH 2A (0805)	.079±.008 (2.00±0.20)	.049±.008 (1.25±0.20)	.014±.008 (0.35±0.20)	.010±.006 (0.25±0.15)
TLRH 3AW (2512)	.248±.008 (6.30±0.20)	.126±.008 (3.20±0.20)	.030±.008 (0.75±0.20)	.020±.008 (0.50±0.20)
NEW TLRH 3AP (2512)			.071±.008 (1.8±0.20)	.020±.008 (0.50±0.20)
			.051±.008 (1.3±0.20)	

ordering information

New Part #

TLRH	3AW	T	TE	33L0	F
Type	Power Rating	Terminal Surface Material	Packaging	Nominal Resistance	Tolerance
	2A (10~27mΩ): 0.5W (33~50mΩ): 0.33W (56~100mΩ): 0.25W 3AW: 2.0W New 3AP: (6~39mΩ): 5.0W (40~120mΩ): 4.0W	T: Sn	2A: TD: 7" 4mm pitch punched paper 3AW, 3AP: TE: 7" punched plastic	±1%: 4 digits Example 33L0: 33mΩ R100: 100mΩ 2A: no marking	F: ±1%

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.

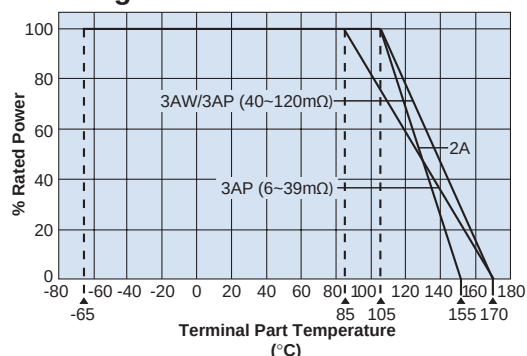
11/05/15

applications and ratings

	Part Designation	Power Rating	T.C.R. (x10 ⁻⁶ /K)	Resistance Range (Ω) F: ±1% (E12)	Tolerance	Rated Terminal Part Temperature	Operating Temperature Range	
NEW	TLRH 2A	0.25W	±75	56m~100m	F: ±1%	+105°C	-65°C~+155°C	
		New 0.33W		33m ~ 50m				
		New 0.50W		10m ~ 27m				
	TLRH 3AW	2.0W	±75	10m~22m		+105°C	-65°C~+170°C	
			±50	24m~270m				
	TLRH 3AP	4.0W	±50	40m, 47m, 50m, 56m~120m				85°C
		5.0W	±50	18m, 20m, 22m, 25m~39m				
			±75	6m, 7m, 8m, 9m, 10m, 12m				

environmental applications

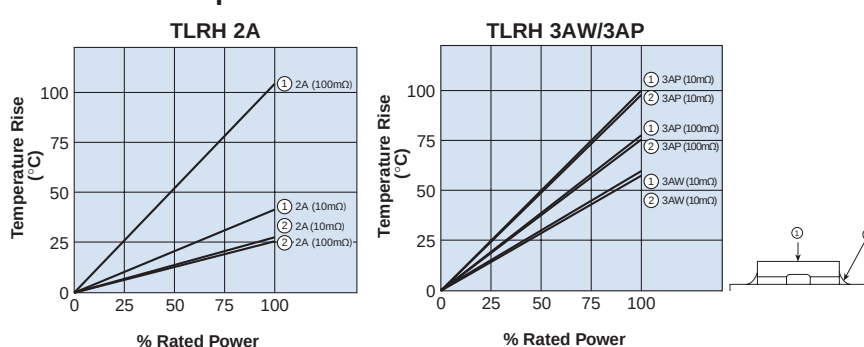
Derating Curve



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" on 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. Please contact factory prior to use.

Performance Characteristics

Parameter	Requirement Limit	Δ R% Typical	Test Method
Resistance	Within specified tolerance	—	25°C
T.C.R.	Within specified T.C.R.	—	+25°C/+100°C
Overload (Short time)	±0.5%	2A: ±0.05% 3AW,3AP: ±0.2%	2A, 3AW: Rated power x 2.5 for 5 seconds 3AP: Rated power x 8W for 5 seconds
Resistance to Soldering Heat	±0.5%	±0.1%	260°C ±5°C, 10 seconds ~ 12 seconds
Rapid Change of Temperature	±0.5%	2A: ±0.2% 3AW,3AP: ±0.1%	-55°C (15min.)/+150°C (15min.) 1000 cycles
Moisture Resistance	±0.5%	±0.1%	85°C ±2°C, 85% RH, 1000 hours, 10% Bias
Endurance at 105°C and Less of Terminal Part Temperature	±1%	2A: ±0.45% 3AW,3AP: ±0.3%	2A, 3AW, 3AP (40~120mΩ): 105°C, ±2°C; 3AP (6~39mΩ): 85°C ±2°C 1000 hours, 1.5 hours ON/0.5 hour OFF cycle
Low Temperature Exposure	±0.5%	2A: ±0.05% 3AW,3AP: ±0.02%	-65°C, 96 hours
High Temperature Exposure	±1%	2A: ±0.5% 3AW,3AP: ±0.2%	2A: +155°C, 1000 hours (6~12mΩ) 3AW, 3AP: +170°C±3°C, 1000 hours (18~120mΩ)
	±2%		3AP: +170°C±3°C, 1000 hours (6~12mΩ)

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3/07/16

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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