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Surface Mount Metal Plate Current Sense Resistors
TLR Series, Specifications & Pricing

KOA SPEER ELECTRONICS, INC.

Part Number Determination

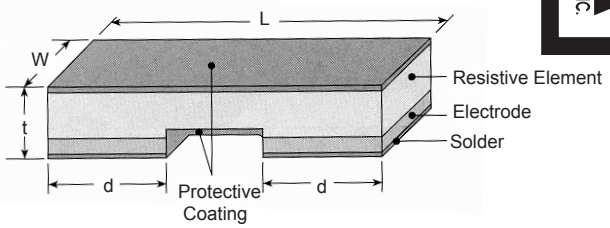
TLR3ALTE2L00F					
TLR	**3A**	**L**	**TE**	**2L00**	**F**
Type	**Power Rating**	**Termination**	**Packaging**	**Nominal Resistance**	**Tolerance**
TLR	2B=0.5W 2H=1W 3A=1W 3AW=2W	L: SnPb (3A) D: SnAgCu (2B, 2H, 3A, 3AW)	TE: 7" 8mm pitch embossed plastic (3A, 3AW: 2,000 pcs/reel) (2H: 4,000 pcs/reel) TD: 4mm pitch punched paper (2B only: 5,000 pcs/reel) BK: Bulk	F: 4 digits J: 3 digits Ex: 2L00: 2mΩ	F: ±1% J: ±5%

Electrical Characteristics

Series	Power Rating @ 70°C	T.C.R. (ppm/°C) Max.	Standard Resistance	Resistance Tolerance	Absolute Maximum Working Voltage	Rated Ambient Temperature	Operating Temperature Range
TLR2B	1/2W (.5W)	±150	2mΩ - 6mΩ, 8mΩ, 10mΩ - 16mΩ, 18mΩ, 20mΩ	F:±1%, J:±5%	$\sqrt{P \cdot R}$	+70°C	-65°C ~ +150°C
TLR2H	1W	±150	2mΩ - 8mΩ	F:±1%, J:±5%	$\sqrt{P \cdot R}$	+70°C	-65°C ~ +150°C
TLR3A	1W	±150	1mΩ, 2mΩ	F:±1%, J:±5%	$\sqrt{P \cdot R}$	+70°C	-65°C ~ +170°C
		±200	3mΩ, 4mΩ				
TLR3AW	2W	±150	2mΩ - 3mΩ	F:±1%, J:±5%	$\sqrt{P \cdot R}$	+70°C	-65°C ~ +155°C
			4mΩ - 8mΩ				-65°C ~ +170°C

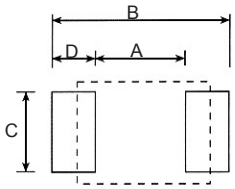
Package Dimensions (in/mm)

Series	Resistance	L	W	d	t
TLR2B	2mΩ - 6mΩ, 8mΩ, 10mΩ - 16mΩ, 18mΩ, 20mΩ	.126±.008 (3.20±0.20)	.063±.008 (1.60±0.20)	0.20±.008 (0.50±0.20)	.024±.008 (0.60±0.20)
TLR2H	2mΩ - 6mΩ	.200±.008 (5.00±0.20)	.100±.008 (2.50±0.20)	0.60±.008 (1.50±0.20)	.024±.008 (0.60±0.20)
	7mΩ - 8mΩ			0.20±.008 (0.50±0.20)	
TLR3A	1mΩ	0.25±.01 (6.35±0.25)	0.125±.01 (3.18±0.25)	.087±.01 (2.20±0.25)	.024±.01 (0.62±0.25)
	2mΩ			0.47±.01 (1.20±0.25)	
	3mΩ			0.73±.01 (1.85±0.25)	
	4mΩ			0.47±.01 (1.20±0.25)	
TLR3AW	2mΩ - 4mΩ	.25±.01 (6.35±0.25)	.125±.01 (3.18±0.25)	.087±.01 (2.20±0.25)	.024±.01 (0.60±0.25)
	5mΩ - 8mΩ			0.47±.01 (1.20±0.25)	



Land Pattern (mm)

Series	Resistance	A	B	C	D
TLR2B		1.4	4.0	1.8	1.3
TLR2H	2mΩ - 6mΩ	1.3	6.1	3.0	2.4
	7mΩ, 8mΩ	3.3	6.1	3.0	1.4
TLR3A	1mΩ	1.95	7.55	3.83	3.05
	2mΩ	3.45	7.55	3.83	2.05
	3mΩ	2.15	7.55	3.83	2.70
	4mΩ	3.45	7.55	3.83	2.05
TLR3AW	2mΩ - 4mΩ	1.45	7.55	3.83	3.05
	5mΩ - 8mΩ	3.45	7.55	3.83	2.05



Mfg Specs
- Go to www.garrettelec.com
- Enter part number or find by description
- Select "S", select "manufacturer's specifications"