# **Current Sensing Resistors Metal Plate Technology**

#### **TLR Series**

# Milliohm Metal Plate Shunts

- Features
  0.5 mΩ to 20 mΩ
  - Current ratings up to 100 A
  - T.C.R.: ±50 / ±75 ppm/K
  - 0.6 ... 0.7 mm low profile height
- Special no 'hotspot' trimming for high reliability
- Low parasitic inductance
- 5 sizes from 0805 to 2512 inch
- Operating Temperatures up to +170 °C
- EU-RoHS compliant, AEC-Q200 qualified
- Filletless product (soldering area is only the bottom electrode)
- Lab Kits are available

#### Application Examples

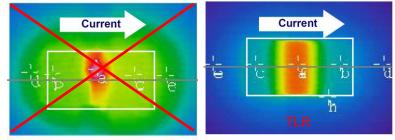
 Automotive electronics, Power steering (EPS), Motor control units, Power supplies, AC / DC-DC converter, Metering, CPU current sensing, Mobile devices charge controller

#### **Motor Control Circuit**

# M High precision resistor networks

### Temperature Distribution Smooth Current Flow

no hot spot



## Ratings

	Ratings incre						
	Туре	Power Rating	T.C.R. (ppm/K)	Resistance Range ( $\Omega$ )	Resistance Tolerance	Rated Terminal Part Temp.	Operating Temp. Range
1206	TLR2BW	1.0W	±50	2m,3m,4m,5m,6m,7m,8m,9m,10m, 11m,12m,13m,15m,16m,18m,20m	F:±1%	+120°C and less	65℃~+170℃
			±75	0.5m,1m,1.5m,2m,3m,4m,5m,6m,7m,8m,9m, 10m,11m,12m,13m,15m,16m,18m,20m			
	TLR2BP	1.5W	±50	2m,3m,4m,5m,6m,7m,8m,9m,10m		+110°C and less	
4000				11m,12m,13m,15m,16m,18m,20m		+100°C and less	
1206			±75	0.5m,1m,1.5m,2m,3m,4m,5m,6m,7m,8m,9m,10m		+110°C and less	
				11m,12m,13m,15m,16m,18m,20m		+100°C and less	
2010	TLR2HW	2.0W	±50	0.5m,1m,1.5m,2m,2.5m,3m,4m,5m,6m,7m 8m,9m,10m		+120°C and less 1.5m~8m : +110°C and less 9m~10m : +90°C and less	
2010			±75				
		3.0W	±50	5m,6m,7m,8m,9m,10m			
2512	TLR3AP		±75	1.5m,5m,6m,7m,8m,9m,10m			
2312	NEW	5.0W	±50	2m,3m,4m		+110°C and less	
			±75	0.5m,0.68m,0.75m,0.82m,1m,2m,3m,4m			
2512	TLR3APS	3.0W	$\pm 50, \pm 75$	2m,3m		+110℃ and less	

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