AEC-Q200 qualified, 3 W, ±50 ppm/K, Milliohm Metal Plate Shunts





KOA has expanded its metal plate current detecting resistor portfolio by adding 3 new series with increased power ratings.

The new TLR high power resistors are offered in the ultra-low resistance range 0.5 m ...20 m and allow power ratings up to 3 W at +110 °C terminal part temperature.

The metal alloy element provides superior corrosion and heat resistance, perfect pulse resistance and shows excellent high-frequency characteristics.

Features:

- $0.5 \text{ m}\Omega$ to $20 \text{ m}\Omega$
- 1.0 W (1206 inch) to 3 W (2512 inch)
- T.C.R.: ± 50/75 ppm/K (over full temperature range)
- Ultra-low height with a thickness of 0.6 mm, suitable for use in small equipment
- AEC-Q200 qualified

Applications:

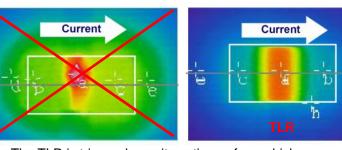
- Automotive electronics
- Current motor control units
- Power steering (EPS)
- Power supplies
- AC / DC-DC power converters
- Metering
- CPU current sensing

Ratings:

	Туре	Power Rating	T.C.R.	Resistance Range (milliohm)	Resistance Tolerance	Rated Terminal Part Temperature	Operating Temp. Range
	TLR 2BP (1206)	1.5 W	+/-50 ppm/K -	2, 3, 4, 5, 6, 7, 8, 9, 10	\$7000000000000000000000000000000000000	+110 °C	-65 ~ +170 °C
				11, 12, 13, 15, 16, 18, 20		+100 °C	
			+/-75 ppm/K -	1, 1.5, 2, 3, 4, 5, 6, 7, 8, 9, 10		+110 °C	
				11, 12, 13, 15, 16, 18, 20		+100 °C	
	TLR 2HW (2010)	2.0 W	+/-50 ppm/K +/-75 ppm/K	1, 2, 3, 4, 5, 6, 7, 8, 9, 10		+120 °C	
	TLR 3AP (2512)	3.0 W	+/-50 ppm/K	2, 3, 4, 5, 6, 7, 8, 9, 10		0.5m~8m:+110°C 9m~10m:+90°C	
			+/-75 ppm/K	0.5, 0.68, 0.75, 0.82, 1, 1.5, 2, 3, 4, 5, 6, 7, 8, 9, 10			

Motor Control Circuit TLR - shunts High precision resistor networks

Temperature Distribution Smooth Current Flow



The TLR is trimmed over its entire surface which means there is no hot spot, giving higher reliability, better long term stability and lower inductance.

For more information, please contact:

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