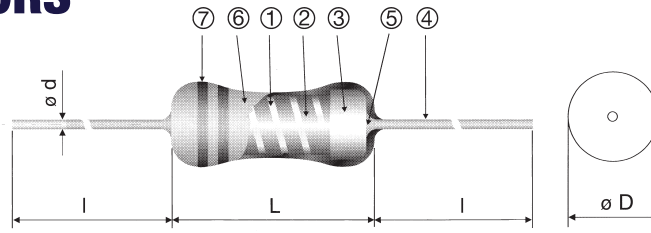
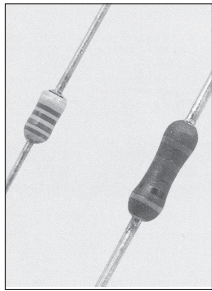


THERMAL SENSORS LINEAR PTC, THIN FILM LP



STRUCTURE

- 1 Ceramic core
- 2 Trimmed thermal film
- 3 Steel cap (Cu, Sn plated)
- 4 Lead wire
- 5 Welding joint
- 6 Epoxy resin overcoating
- 7 Marking
- 8 Marking

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
LP 1/16	Ivory	Color Code
LP 1/8	Brown	(R-value and tolerance)

All these products have Pb-free terminations and meet EU-RoHS and China-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

LP	1/8	C	T26	A	103	J	362
PRODUCT CODE	POWER RATING Unit: Watt 1/16, 1/8	TERMINATION SURFACE MATERIAL C: SnCu	TAPING *Nil: Bulk T26: 26mm Taping T52: 52mm Taping	PACKAGING *Nil: Bulk A: AMMO	NOMINAL RESISTANCE 3 digits	RESISTANCE TOLERANCE F: (±1%), G: (±2%) J: (±5%)	T.C.R. (ppm/K) 3 digits 151=150, 362=3600

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

*Please see "PACKAGING"

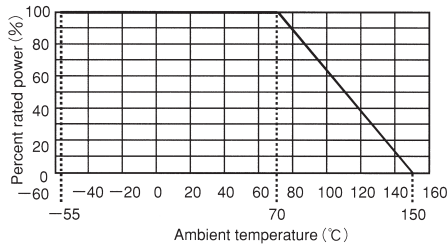
FEATURES

- High stability and excellent linearity
- Tight resistance tolerances (±1%) and 24 specific TCR's between 150 and 5000ppm/K are standard
- Suitable for temperature control in industrial equipment
- Ideal for use as temperature compensation or overheat prevention of various PCB's, motors, measuring instruments, communication equipment and home electronics
- Rated ambient temperature: +70°C
- Operating temperature range: -55°C...+150°C

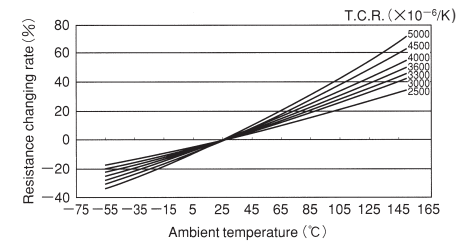
DIMENSIONS (mm)

DIN SIZE	TYPE	L	ø D ± 0.2	ø d (nom.)	l ± 3
0204	LP 1/16	3.5 ^{+0.2} _{-0.4}	1.7	0.5±0.05	30
0207	LP 1/8	6.35±0.8	2.3	0.65±0.05	38

DERATING CURVE



TEMPERATURE CHARACTERISTICS



RATING

SIZE	TYPE	T.C.R.* (ppm/K)	T.C.R. TOLERANCE	POWER RATING**	THERMAL TIME CONSTANT	THERMAL DISSIPATION CONSTANT	RESISTANCE RANGE AND TOLERANCE E24 & 2.5, 5.0 x 10 ⁿ		
							F (±1%)	G (±2%)	J (±5%)
0204	LP 1/16	150 • 250 • 350	±50ppm/K	0.063W	8 sec.	2.5 mW/K	-	150Ω...10kΩ	150Ω...10kΩ
		450							
		550 • 650 • 750 • 850							
		950 • 1000 • 1200	±10%					150Ω...30kΩ	150Ω...30kΩ
		1400 • 1600 • 1800							
		2000 • 2200 • 2400							
2500	±5%	100Ω...30kΩ	10Ω...30kΩ	1Ω...30kΩ					
3000 • 3300		100Ω...10kΩ	10Ω...10kΩ	1Ω...10kΩ					
3600									
4000 • 4500 • 5000									
0207	LP 1/8	150 • 250 • 350	±50ppm/K	0.125W	14 sec.	4.5 mW/K	-	150Ω...51kΩ	150Ω...51kΩ
		450							
		550 • 650 • 750 • 850							
		950 • 1000 • 1200	±10%					150Ω...100kΩ	150Ω...100kΩ
		1400 • 1600 • 1800							
		2000 • 2200 • 2400							
2500	±5%	100Ω...100kΩ	10Ω...100kΩ	1Ω...100kΩ					
3000 • 3300		100Ω...51kΩ	10Ω...51kΩ	1Ω...51kΩ					
3600		100Ω...20kΩ	10Ω...20kΩ	1Ω...20kΩ					
4000 • 4500 • 5000									

* T.C.R. Measuring temperature +25°C / +65°C.

** For sensors operated at an ambient temperature of +70°C or above, the power rating shall be derated in accordance with the above derating curve. Thermal time constant and dissipation constant are reference values, which are values of elements and vary with connecting or fixing methods.

The resistance varies by its self-heating. Reasonable care must be exercised in using it by taking its self-heating into consideration. Sensors operated at rated power will cause temperature errors of 10°C or above.

Rated voltage = √ Power rating x resistance value

Please contact KOA for special precautions before you order and use this series.

Contact our sales representatives before you use our products for applications including automobiles, medical equipment and aerospace equipment. Malfunction or failure of the products in such applications may cause loss of human life or serious damage.

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