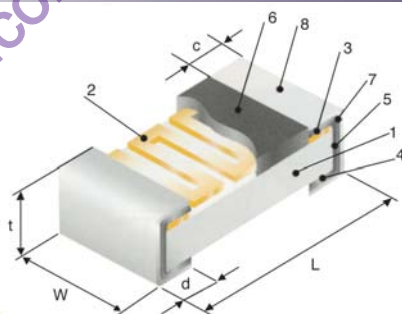


THERMAL SENSORS

LINEAR PTC. THIN FILM

LT 73



STRUCTURE

- 1 Ceramic substrate
- 2 Metal film resistor element
- 3 Top termination
- 4 Bottom termination
- 5 End termination
- 6 Protective layer
- 7 Nickel barrier
- 8 Solder plating

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
LT73	Orange	Black, 4 digits

**Products with Pb-free terminations
meet RoHS requirements**

TYPE DESIGNATION (HOW TO ORDER)

Old Part No.	LT73	600	2A	J		TD	10K		
New Part No. (Pb-free)	LT73		2A		T	TD	103	J	0600
	PRODUCT CODE	T.C.R. (ppm/K)	STYLE 2A: 0805 2B: 1206	RESISTANCE TOLERANCE	TERMINATION SURFACE MATERIAL T: Sn L: Sn/Pb	TAPING* TD, TE, BK *Please see "PACKAGING"	NOMINAL RESISTANCE 3 digits	RESISTANCE TOLERANCE G: $\pm 2\%$ J: $\pm 5\%$	T.C.R. (ppm/K) 4 digits

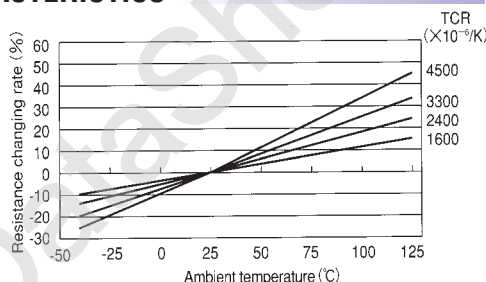
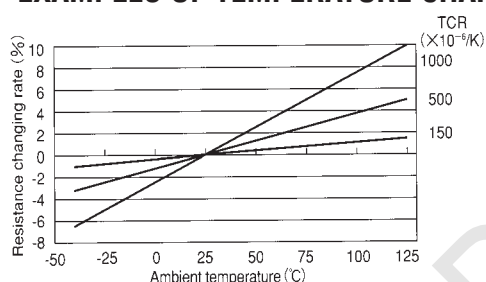
FEATURES

- SMD metal thin film resistors with thermo-perceptivity
- Resistance value changes in linear positive way to temperature
- Suitable for temperature control in various industrial equipment
- Anti-leaching nickel barrier terminations
- 25 specific temperature characteristics
- Meets or exceeds IEC 60115-8, JIS C 5201-8
- Rated ambient temperature: + 70° C
- Operating temperature range: -40° C ... + 125° C
- Suitable for reflow and wave soldering

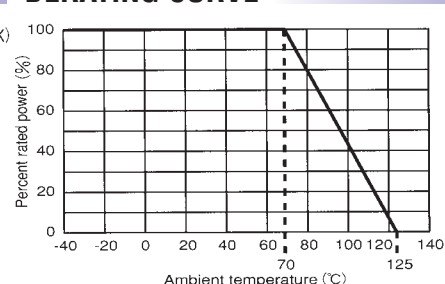
DIMENSIONS (mm)

SIZE	TYPE	$L \pm 0.2$	$W \pm 0.2$	$t \pm 0.1$	c	$d^{+0.2}_{-0.1}$
0805	LT73 2A	2.0	1.25	0.5	0.4 ± 0.2	0.3
1206	LT73 2B	3.2	1.6	0.6	0.5 ± 0.3	0.4

EXAMPLES OF TEMPERATURE CHARACTERISTICS



DERATING CURVE



RATING

SIZE	TYPE	T.C.R.*	POWER** RATING	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	T.C.R. TOLERANCE	RESISTANCE RANGE	
							E24 • G (±2%)	E24 • J (±5%)
0805	LT73 2A	150 • 250 • 350 • 450 • 500 ppm/K	0.1 W	50 V	100 V	± 100 ppm/K	2 kΩ ... 24 kΩ	—
		600 • 700 • 800 • 900 ppm/K				± 150 ppm/K		1 kΩ ... 20 kΩ
		1000 • 1200 • 1400 ppm/K				± 15%		1 kΩ ... 13 kΩ
		1600 • 1800 ppm/K						510 Ω ... 4.7 kΩ
		2000 • 2200 • 2400 ppm/K				± 10%		510 Ω ... 4.7 kΩ
		2600 • 2800 ppm/K						510 Ω ... 3 kΩ
		3000 • 3300 • 3600 ppm/K						100 Ω ... 1 kΩ
		3900 ppm/K						51 Ω ... 510 Ω
		4200 ppm/K						
		4500 ppm/K						
1206	LT73 2B	150 • 250 • 350 • 450 • 500 ppm/K	0.125 W	75 V	150 V	± 100 ppm/K	2 kΩ ... 51 kΩ	—
		600 • 700 • 800 • 900 ppm/K				± 150 ppm/K		1 kΩ ... 43 kΩ
		1000 • 1200 • 1400 ppm/K				± 15%		1 kΩ ... 27 kΩ
		1600 • 1800 ppm/K						1 kΩ ... 10 kΩ
		2000 • 2200 • 2400 ppm/K				± 10%		510 Ω ... 9.1 kΩ
		2600 • 2800 ppm/K						510 Ω ... 6.2 kΩ
		3000 • 3300 • 3600 ppm/K						100 Ω ... 2 kΩ
		3900 ppm/K						51 Ω ... 510 Ω
		4200 ppm/K						
		4500 ppm/K						

* T.C.R. Measuring Temperature: + 25° C / + 75° C

**For resistors operated at an ambient temperature of +70°C or above, the power rating shall be derated in accordance with the above derating curve.