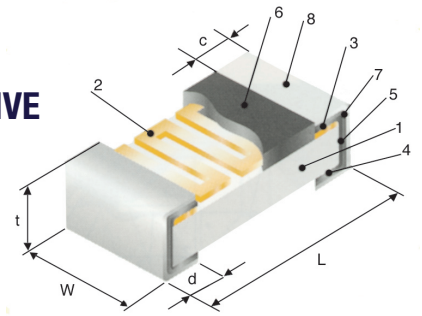
THERMAL SENSORS

LINEAR PTC, THIN FILM, AUTOMOTIVE

LT73V

NEW



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

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

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
LT73V	Orange	Black, 4 digits

TYPE DESIGNATION (HOW TO ORDER)

LT73V	2A	T	TD	822	J	0600
PRODUCT CODE	STYLE 2A: 0805 2B: 1206	TERMINATION SURFACE MATERIAL T: Sn	TAPING* TD, TE, BK *Please see "PACKAGING"	NOMINAL RESISTANCE 3 digits	RESISTANCE TOLERANCE G: (±2%) J: (±5%)	T.C.R. (ppm/K) 4 digits

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

FEATURES

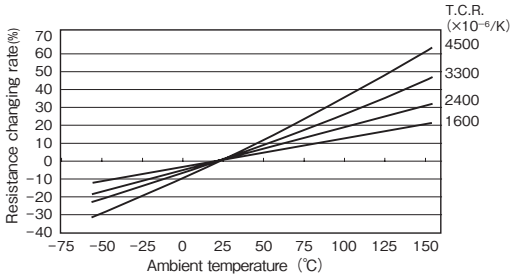
- SMD metal thin film resistors with thermo-perceptivity
- Resistance value changes in linear positive way to temperature
- Suitable for temperature compensation of current sensors, FET, semiconductors and various kinds of electric circuits and sensors
- Anti-leaching nickel barrier terminations
- 25 specific temperature characteristics
- Parts are tested according to AEC-Q200 requirements
- Meets or exceeds IEC 60115-8, JIS C 5201-8
- Rated ambient temperature: + 85°C
- Operating temperature range: -55°C ... + 155°C
- Suitable for reflow and wave soldering

DIMENSIONS (mm)

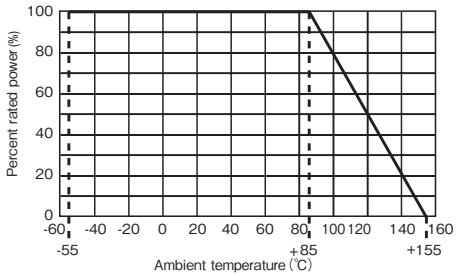
SIZE	TYPE	L ± 0.2	W ± 0.2	t ± 0.1	c	d $^{+0.2}_{-0.1}$
0805	LT73V 2A	2.0	1.25	0.5	0.4 ± 0.2	0.3
1206	LT73V 2B	3.2	1.6	0.6	0.5 ± 0.3	0.4

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

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%)	RESISTANCE RANGE E24 • J (±5%)
0805	LT73V 2A	150 • 250 • 350 • 450 • 500 ppm/K	0.1 W	50 V	100 V	± 100 ppm/K	2 kΩ ... 15 kΩ	—
		600 • 700 • 800 • 900 ppm/K				± 150 ppm/K	—	1 kΩ ... 8.2 kΩ
		1000 • 1200 • 1400 ppm/K				± 15%		1 kΩ ... 6.8 kΩ
		1600 • 1800 ppm/K						510 Ω ... 4.7 kΩ
		2000 • 2200 • 2400 ppm/K						510 Ω ... 4.7 kΩ
		2600 • 2800 • 3000 ppm/K						510 Ω ... 3 kΩ
		3300 • 3600 • 3900 ppm/K				± 10%		
		4200 ppm/K						100 Ω ... 1 kΩ
		4500 ppm/K						51 Ω ... 510 Ω
1206	LT73V 2B	150 • 250 • 350 • 450 • 500 ppm/K	0.125 W	75 V	150 V	± 100 ppm/K	2 kΩ ... 22 kΩ	—
		600 • 700 • 800 • 900 ppm/K				± 150 ppm/K	—	1 kΩ ... 15 kΩ
		1000 • 1200 • 1400 ppm/K				± 15%		1 kΩ ... 8.2 kΩ
		1600 • 1800 ppm/K						1 kΩ ... 6.8 kΩ
		2000 • 2200 • 2400 ppm/K						510 Ω ... 6.8 kΩ
		2600 • 2800 • 3000 ppm/K						510 Ω ... 6.2 kΩ
		3300 • 3600 • 3900 ppm/K				± 10%		
		4200 ppm/K						100 Ω ... 2 kΩ
		4500 ppm/K						51 Ω ... 510 Ω

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

* T.C.R. Measuring Temperature: + 25° C / + 75° C **For resistors operated at an ambient temperature of +85°C or above, the power rating shall be derated in accordance with the above derating curve.

Please contact KOA for special precautions before you order and use this series. Rated voltage = $\sqrt{\text{Power rating x resistance value}}$ or max. working voltage, whichever is lower.