

# POSITIVE T.C.R. CHIP THERMISTORS

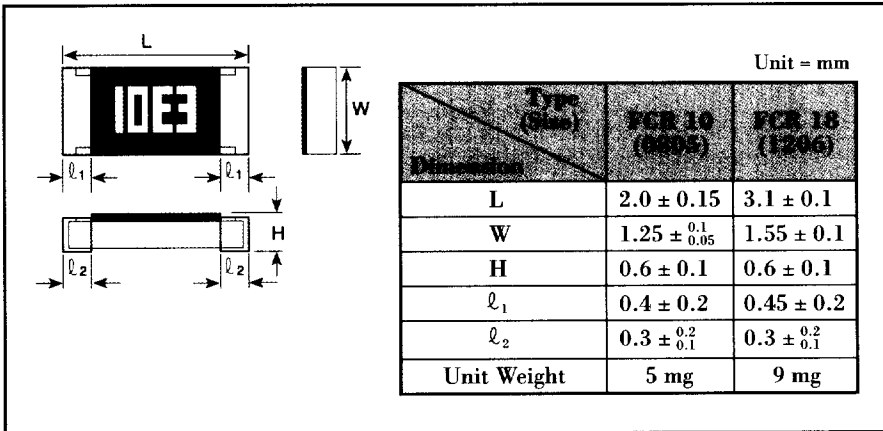
LTC 10, 18

The Kamaya LTC thermistor offers a wide range of thermal sensing characteristics in a small SMD package. This component has a positive temperature coefficient and is useful in applications requiring temperature compensation, temperature sensing or circuit protection. The LTC thermistor can be mounted directly on to a circuit board or similar substrate. It can also be packaged independently for external temperature sensing.

## ● FEATURES

1. Available in industry standard 0805 and 1206 size packages.
2. T.C.R. available from 500 to 4500 ppm/°C.
3. Excellent solderability with both flow and reflow soldering operations.
4. Resistance and T.C.R. value marked on the chip.

## ● DIMENSIONS

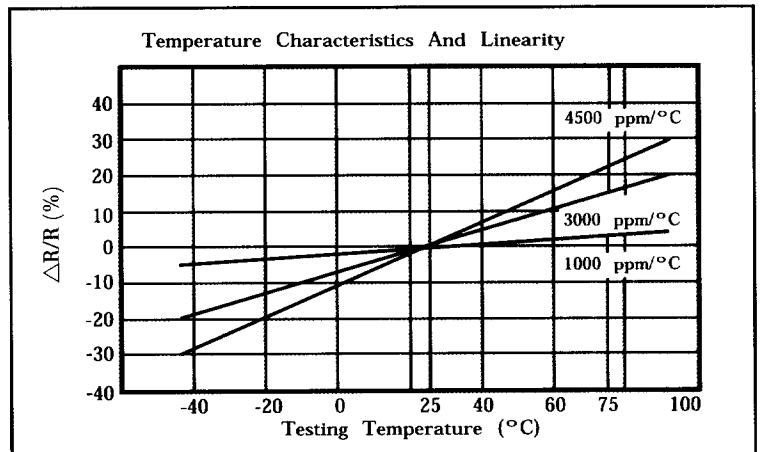


## ● RATINGS

Type (Size)	Maximum Working Voltage V	Operating Temperature Range
LTC 10 (0805)	50	-40°C to 125°C
LTC 18 (1206)	100	

## ● PERFORMANCE CHARACTERISTICS

DESCRIPTION	PERFORMANCE
Resistance Temperature Coefficient	As specified in table
Short-time Overload	± 0.5% maximum
Terminal Strength	± 0.5% maximum
Solder-Heat Resistance	± 1.0% maximum
Solderability	95% minimum coverage
Temperature Cycle	± 0.5% maximum
Load Life in Moisture	± 2.0% maximum
Load Life	± 2.0% maximum



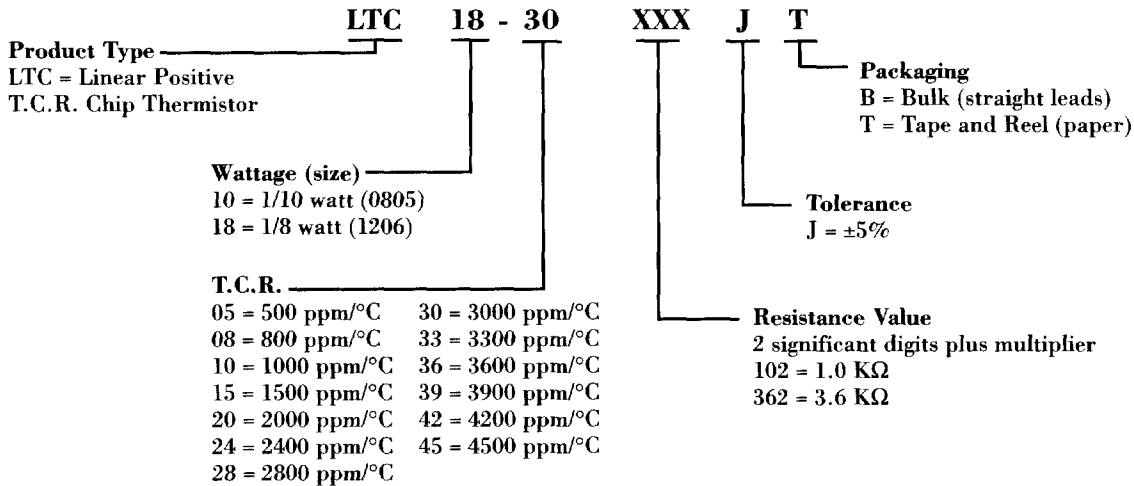
Test methods per EIA 460 and JIS C5202



## ● RESISTANCE VALUE AND RESISTANCE TEMPERATURE COEFFICIENT

Resistance Value		Resistance Temperature Coefficient			
Range E <sub>3</sub> Series		Tolerance	Symbol	Nominal Value (ppm/°C)	Tolerance
LTC 10	LTC 18				
100 Ω to 5.1 KΩ	100 Ω to 10KΩ	± 5% (J)	05	500	± 100 ppm
100 Ω to 5.1 KΩ	100 Ω to 10 KΩ		08	800	± 150 ppm
100 Ω to 5.1 KΩ	100 Ω to 10 KΩ		10	1000	± 15%
100 Ω to 3.3 KΩ	100 Ω to 4.7 KΩ		15	1500	
100 Ω to 3.3 KΩ	100 Ω to 4.7 KΩ		20	2000	+ 10%
100 Ω to 1.6 KΩ	100 Ω to 2.2 KΩ		24	2400	
100 Ω to 3.3 KΩ	100 Ω to 3.6 KΩ		28	2800	
100 Ω to 3.3 KΩ	100 Ω to 3.6 KΩ		30	3000	
100 Ω to 3.3 KΩ	100 Ω to 3.6 KΩ		33	3300	
51 Ω to 910 Ω	51 Ω to 1.2 KΩ		36	3600	
51 Ω to 560 Ω	51 Ω to 910 Ω		39	3900	
33 Ω to 360 Ω	33 Ω to 470 Ω		42	4200	
33 Ω to 100 Ω	33 Ω to 180 Ω		45	4500	

## ● PART NUMBER SYSTEM



## ● MARKINGS

Four digit markings. The first two indicate T.C.R. The third and fourth digits indicate resistance value.

