



# Product Change Notification

## TE Connectivity

Product Change Notification: P-23-024574

PCN Date: 19-MAY-23

TE would like to inform you of the following change(s) to the listed TE Connectivity Product. In case of any further questions about this change(s), please contact your TE Connectivity Sales Engineer. Affected part, drawing and/or specification numbers are listed on the attached sheet(s).

### General Product Description:

Temperature Sensing Chip Resistor - Type LT73 Series

### Description of Changes

As part of strategic alignment and portfolio optimization, TE has decided to discontinue the TCPN's included in the list below. Last time buy and last time shipments will be supported until the provided dates below.

#### Other attachments:

[LT73 Series Data Sheet](#)

### Reason for Changes:

Part status change.Strategic alignment and portfolio optimization

### Estimated Dates:

Last Order Date (Obsolete Parts Only):

18-AUG-2023

First Date To Ship (Changed Parts Only):

Last Ship Date (Obsolete Parts Only):

17-NOV-2023

Last Date for Mixed Shipments: (Changed Parts Only):

No Mixed Shipments

### Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">1624333-1</a>	YES			"LT732K0JTG", "LT7339002A2K0JTG", "LT7339002A2K0JTE"			
<a href="#">1624334-1</a>	YES			"LT7330001K0JTG", "LT7330002A1K0JTG", "LT7330002A1K0JTE"			
<a href="#">1624337-1</a>	YES			"LT7330003K0JTG", "LT7330002A3K0JTG", "LT7330002A3K0JTE"			

### Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">1624333-1</a>	YES			"LT732K0JTG", "LT7339002A2K0JTG", "LT7339002A2K0JTE"			
<a href="#">1624334-1</a>	YES			"LT7330001K0JTG", "LT7330002A1K0JTG", "LT7330002A1K0JTE"			
<a href="#">1624337-1</a>	YES			"LT7330003K0JTG", "LT7330002A3K0JTG", "LT7330002A3K0JTE"			

## Type LT73 Series

### Key Features

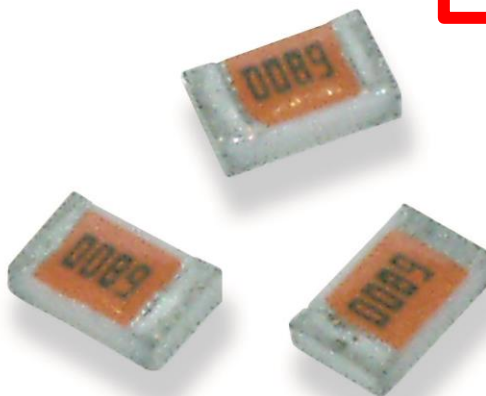
Stable Alumina  
Substrate

Solvent  
Resistant  
Coating

Excellent  
Linearity

Supplied on  
Tape and Reel

Other TCR's  
available to  
order



**PRODUCT PLANNED  
FOR EOL**

**LTB 18/08/23**

This thin film chip is manufactured by sputtering pure metals onto a high purity alumina base. This process ensures the element remains stable in performance over a long life. The LT73 is equally suited to temperature compensation or thermal protection when incorporated within the appropriate electronics. This range of sensors are finished in a tough epoxy seal and are available on tape for high speed auto placement.

## Characteristics – Electrical

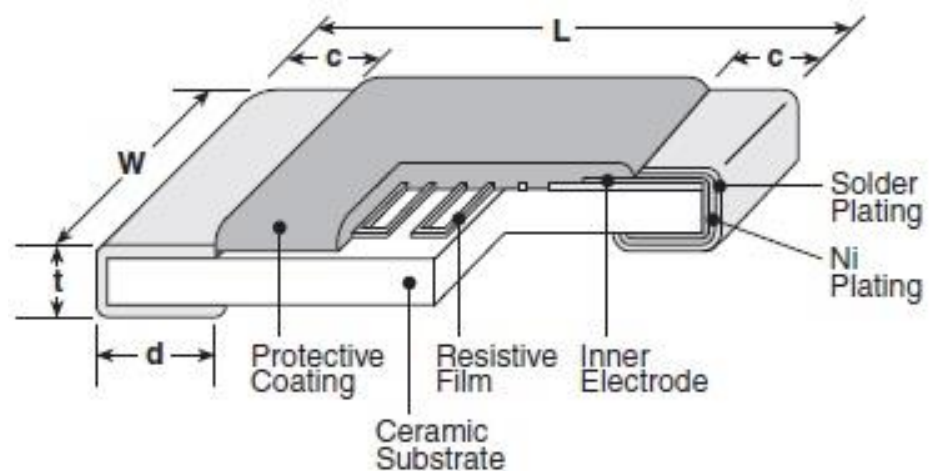
	0805 Size (2A)	1206 size (2B)
Resistance Range	510R - 3K0	510R - 6K2
Resistance Tolerance	$\pm 5\%$	
Rated Power at 70°C	0.1 Watt	0.125 Watt
Max. Working Voltage @ TA 70°C	50 volts	75 volts
Max. Overload Voltage @ TA 70°C	100 volts	150 volts
Operating Temperature Range	$-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$	
TCR Measuring Temperature	$+25^{\circ}\text{C} \sim +75^{\circ}\text{C}$ (See Graph)	
TCR Tolerance	$\pm 10\%$	
Insulation Resistance	More than 10 Meg	

Marking – Black four digit on bronze body color

## Performance Characteristics

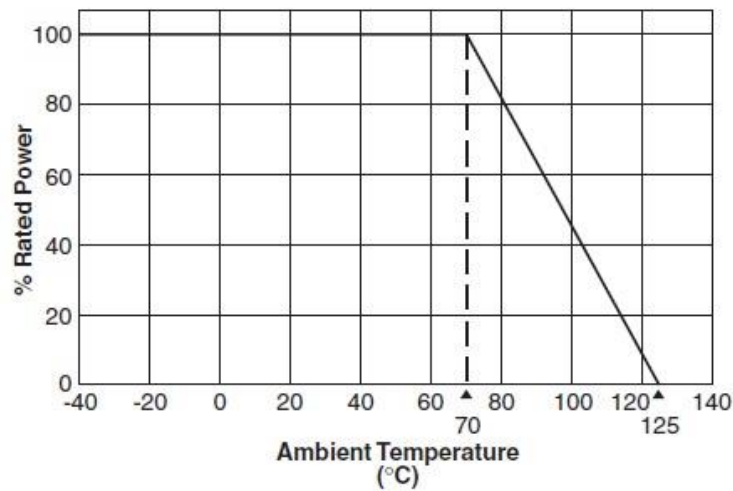
Parameter	Requirement $\Delta R \pm (\% + 0.05\Omega)$		Test Method
	Limit	Typical	
Resistance	Within specified tolerance		25°C
TCR	Within specified tolerance		+25°C/+75°C
Overload (Short time)	±1.0%	±0.23%	Rated voltage x 2.5 or maximum overload volume for 5 seconds, whichever is lower
Resistance to Solder Heat	±1.0%	±0.1%	260°C ± 5°C, 10 seconds ± 1 second
Rapid Change of Temperature	±1.0%	±0.1%	-40°C (30 minutes)/+125°C (30 minutes), 5 cycles
Moisture Resistance	±3.0%	±0.54%	40°C ± 2°C, 90 - 95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 70°C	±3.0%	±0.62%	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle

## Construction and Dimensions

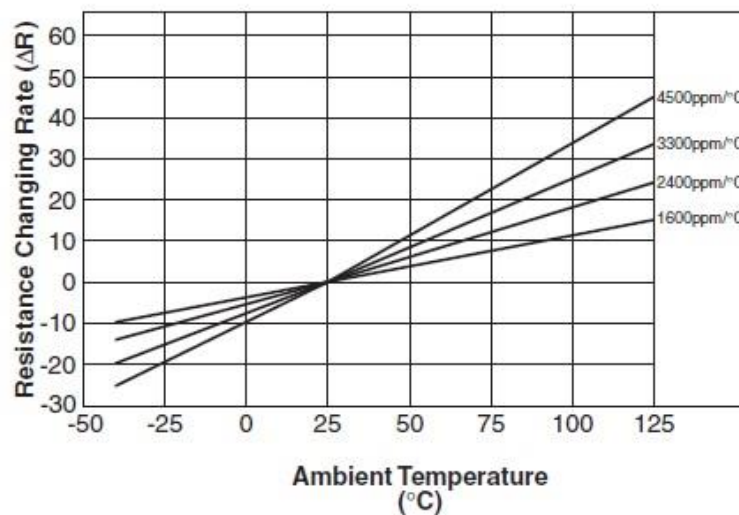


Type	Dimensions (mm)				
	L	W	c	d	t
2A (0805)	2.00±0.20	1.25±0.20	0.40±0.20	0.30 <sup>+0.20</sup> / <sub>-0.10</sub>	0.50±0.10
2B (1206)	3.20±0.20	1.60±0.20	0.50±0.30	0.40 <sup>+0.20</sup> / <sub>-0.10</sub>	0.60±0.10

## Derating Curve



## Temperature Characteristics

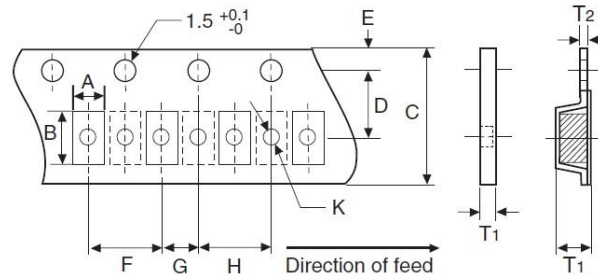


## Approximate expression for Resistance-Temperature Characteristics

TCR ( $\times 10^{-6}/K$ )	$C_0$	$C_1$	$C_2$
3000	0.9288	0.0028	$1.9983 \times 10^{-6}$
3300	0.9232	0.0030	$2.9980 \times 10^{-6}$
3600	0.9175	0.0032	$4.0000 \times 10^{-6}$
3900	0.9099	0.0035	$4.0064 \times 10^{-6}$
4200	0.9026	0.0038	$3.9964 \times 10^{-6}$
4500	0.8948	0.0041	$4.0064 \times 10^{-6}$

## Packaging

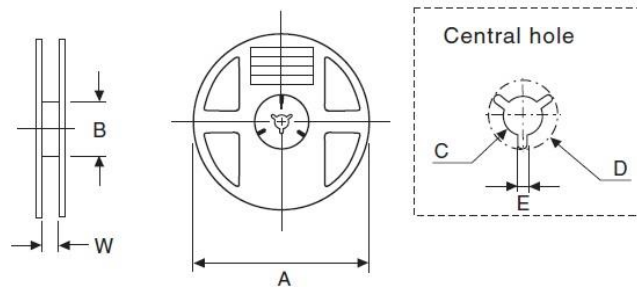
### Carrier Tape



Tape	B	C	D	E	F	G	H
2A	2.4±0.1	8.0±0.2	3.5±0.05	1.75±0.1	4.0±0.1	2.0±0.05	4.0±0.1
2B	3.5±0.1	8.0±0.2	3.5±0.05	1.75±0.1	4.0±0.1	2.0±0.05	4.0±0.1

Tape	A	K	T <sub>1</sub>	T <sub>2</sub>
2A (TE)	1.60±0.15	1.2 Max.	0.75 <sup>+0.2</sup> <sub>-0</sub>	0.25±0.05
2B (TD)	2.0±0.2	---	0.90±0.1	---

### Reel



Reel	A	B	W	C	D	E
TE	178±2.0	60±2.0	10±1.2	13±0.5	21±0.8	2.0±0.5
TD	178±2.0	60±2.0	10±1.2	13±0.5	21±0.8	2.0±0.5

## How To Order

LT73	3900	2A	1R0	J	TE
Common Part	T.C.R.	Size	Resistance Value	Tolerance	Packaging
LT73	3000ppm/°C 3900ppm/°C	2A 0805 2B 1206	0.1Ω - R10 1Ω - 1R0 1KΩ- 1K0	J - 5%	TE - 4000 RL (0805) TD - 5000 RL (1206)