Temperature Sensing Resistors

PTC Chip - LT73 Series



H = 1.6, W = 0.8, D = 0.45 Terminations W = 0.3

- Highly linear PTC response
- MEGGITT ELECTRONIC COMPONENT to temperature change Each part is individually value marked
- in black over orange Applications include temperature compensation and thermal protection
- TCRs at 3000 ppm and 3900 ppm meet internationally recognised standards

Linear PTC chip for thermal sensing. The tiny 0805 size thin film temperature sensor is manufactured by depositing a special alloy, ensuring long life stability. Supplied on 8mm tape.

Resistor tolerance	±5%
Rated power @ 70°C	0.1 watt to zero @ 120°C
Working voltage Overload voltage Operating temperature	50V max. 100V max. -40°C to +125°C
Operating temperature	-40 6 10 +125 6

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Temperature coefficient TCR measurement range TCR tolerance Insulation resistance	3000 or 3900 pp +25°C to +75°C ± 10% >10MΩ

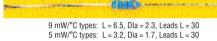
Resistance @ 25°C	Resistance @ 70°C	TCR	Order Code
$1,000\Omega$	$1,140\Omega$	3000ppm	732-310
$1,500\Omega$	$1,700\Omega$	3000ppm	732-321
$2,000\Omega$	$2,300\Omega$	3000ppm	732-333
$3,000\Omega$	$3,400\Omega$	3000ppm	732-345
680Ω	799.3Ω	3900ppm	732-357
$1,000\Omega$	$1,180\Omega$	3900ppm	732-369
$1,500\Omega$	$1,760\Omega$	3900ppm	732-370
$2,000\Omega$	$2,350\Omega$	3900ppm	732-382
$3,000\Omega$	$3,530\Omega$	3900ppm	732-394

					RPa
Order Multiple=5			Price Each		
	5+	25+	100+	500+	1000+
All Order Codes					

PTC, Axial Lead



RP308



- Resistance value increases linearly with temperature rise
- Applications include temperature compensation in sensitive electronic circuits
- Available ratings 0.25W and 0.17W

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Heat dissipation	0.25W = 9mW/°C, 0.17W = 5mW/°C
Time constant	0.25W = 7.5 sec, 0.17W = 3.0 sec
Standard resistance @ 25°C	$1KΩ$, $5.1KΩ$, $10KΩ \pm 5\%$
Temperature coefficcient	0.3%/°C @ 25°C (3000ppm/°C) ± 10%
Resistance ratio	R25°C/R125°C = 1.37
Operating temperature range	-40°C to +125°C
High temperature stability	1000 hours @ 125°C, 0.5% ∆R
The Control of the Co	1000

Standard Resistance	Heat Dissipation mW/°C	Order Code	1+	F 25+	Price Eac	h 250+	1000+
1ΚΩ	9.0	732-278	1+	20+	100+	230+	1000+
10KΩ	9.0	732-280					
1ΚΩ	5.0	732-291					
5.1KΩ	5.0	732-308					

NTC, Axial Lead



These temperature sensing resistors are manufactured utilising thick film materials and techniques proven in the manufacture of precision resistors.

Standard resistance @ 25°C	$1k\Omega \pm 2\%$
Temperature coefficient	0.3%/°C @ 25°C (3000 ppm/°C)
Resistance ratio	R25°C/R125°C = 1.37
Linearity	<1% deviation/100°C
Operating temperature range	-55°C to +175°C
High temperature stability	3000 hours @ 175°C, < 0.8%∆R
Heat dissipation	8.1mW/°C
Time constant	7.4.0000

Time constant	7.4 Se	US.		RP309
		Price Each		
Order Code	1+	25+	100+	
143-584 †				
† Available until s	tocks are exhaus	ted		

Carbon Skeleton Trimmers

0.1 Watt - POZ2 Series Ultra Small







D = 2.7

- Ultra small SMD carbon trimmer compatible with automatic adjustment and reflow soldering
- Lead free construction with gold terminations, suitable for lead free applications/processes
- Special resin substrate withstands reflow solder process
- Trimming tool (KMPOT05) also available

Power rating @ 50°C Resistance tolerance Maximum voltage ±500ppm/°C -25°C to +85°C Temperature coefficient Operating temperature Rotation angle mechanical 240°+30°

Stocked in the following OHMIC Values:

500R = 353-1454	3K = 353-1480	20K = 353-1510	100K = 353-1545	500K = 353-1570
1K = 353-1466	5K = 353-1491	30K = 353-1521	200K = 353-1557	1M = 353-1582
2K = 353-1478	10K = 353-1508	50K = 353-1533	300K = 353-1569	

					RP33
Order Multiple=5			Price Each		
Order Code	5+	50+	100+	500+	1000+
All Values					

0.1Watt - POZ3 Series











- Single turn carbon trimmer in 3.1 square SMD package
- Excellent solderability due to special plating technique used on terminators
- Substrate design prevents wicking of flux onto the top of the part
- Compatible with in-process automatic adjustment
- Trimming tool (KMPOT13T) also available

Power rating @50°C 0.1W Resistance tolerance ±30% Maximum voltage Temperature coefficient 50V d.c ±500ppm/°C Operating temperature Rotation angle mechanical -25°C to +85°C 230°±10°

Stocked in the following OHMIC Values:

2M = 353-1752	200K = 353-1715	20K = 353-1673	2K = 353-1636	200R = 353-1594
	300K = 353-1727	30K = 353-1685	3K = 353-1648	300R = 353-1600
	500K = 353-1739	50K = 353-1697	5K = 353-1650	500R = 353-1612
	1M = 353-1740	100K = 353-1703	10K = 353-1661	1K = 353-1624
RP329				

1	Order Multiple=5			Price	Each	
	Order Code	5+	50+	100+	500+	1000+
	All Values					

0.05Watt - 3103 3mm Carbon Trimmer







H = 1.8. W = 3.6. L = 3.1

- Carbon on polyester with end stops
- Sealed for washing (note the seal is broken when trimmed).

0.05W Power rating @ 50°C Maximum voltage 50V d.c

±500ppm/°C 25°C to 70°C ±750ppm/°C -20°C to 25°C

Operating temperature -20°C to 70°C Rotation electrical 260° +20%