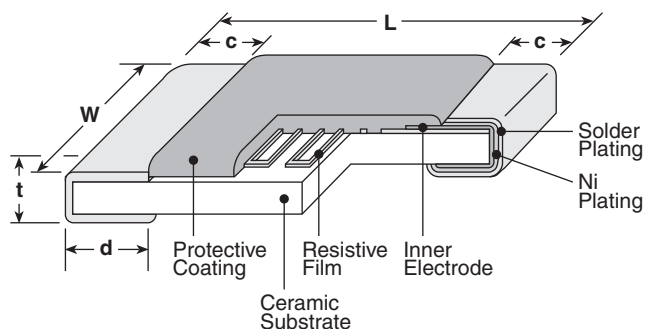


features

- Anti-leaching nickel barrier terminations
- Twenty-five specifiable temperature characteristics
- SMD thin film resistor with thermo-perceptivity
- Marking: Black four-digit on bronze body color
- Products with lead-free terminations meet EU RoHS and China RoHS requirements

dimensions and construction



Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
2A (0805)	.079±.008 (2.0±0.2)	.049±.008 (1.25±0.2)	.016±.008 (0.4±0.2)	.012 ^{+.008} _{-.004} (0.3 ^{+.0.2} _{-.0.1})	.02±.004 (0.5±0.1)
2B (1206)	.126±.008 (3.2±0.2)	.063±.008 (1.6±0.2)	.02±.008 (0.5±0.3)	.016 ^{+.008} _{-.004} (0.4 ^{+.0.2} _{-.0.1})	.024±.004 (0.6±0.1)

ordering information

New Part #	LT73	2B	T	TD	101	J	1000
	Type	Size Code	Termination Material	Packaging	Resistance Value	Tolerance	T.C.R.
		2A: 0805 2B: 1206	T: Sn (Other termination styles available, contact factory for options)	TD: 7" paper taping (5,000 pieces/reel) TE: 7" embossed plastic (4,000 pieces/reel)	2 significant figures + 1 multiplier	G: ±2% J: ±5%	

For further information on packaging, please refer to Appendix A.

applications and ratings

Part Designation	Power Rating @ 70°C	Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temp. Range
LT732A	100mW	50V	100V	-40°C to +125°C
LT732B	125mW	75V	150V	

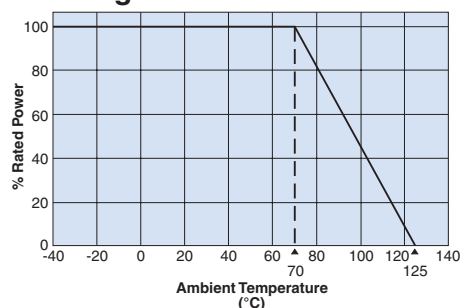
Resistance Range E-24*		Resistance Tolerance	T.C.R. (ppm/°C)**	T.C.R. Tolerance
LT732A	LT732B			
2KΩ - 24KΩ	2KΩ - 51KΩ	G: ±2%	150, 250, 350, 450, 500	±100ppm/°C
1KΩ - 20KΩ	1KΩ - 43KΩ	J: ±5%	600, 700, 800, 900	±150ppm/°C
1KΩ - 13KΩ	1KΩ - 27KΩ		1000, 1200, 1400	±15%
510Ω - 4.7KΩ	1KΩ - 10KΩ		1600, 1800	
510Ω - 4.7KΩ	510Ω - 9.1KΩ		2000, 2200, 2400	±10%
510Ω - 3.0KΩ	510Ω - 6.2KΩ		2600, 2800	
510Ω - 3.0KΩ	510Ω - 6.2KΩ		3000, 3300, 3600	
510Ω - 3.0KΩ	510Ω - 6.2KΩ		3900	
100Ω - 1KΩ	100Ω - 2KΩ		4200	
51Ω - 510Ω	51Ω - 510Ω		4500	

* See Appendix D for available decade values.

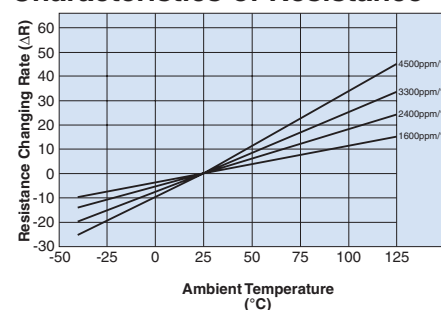
** T.C.R. is factory tested from 25°C to 75°C.

environmental applications

Derating Curve



Examples of Temperature Characteristics of Resistance



Approximate Expression for Resistance-Temperature Characteristics

T.C.R. (x10 ⁻⁵ /K)	C ₀	C ₁	C ₂
3000	0.934	0.00258	2.77 x 10 ⁻⁶
3300	0.927	0.00282	3.17 x 10 ⁻⁶
3600	0.921	0.00306	3.58 x 10 ⁻⁶
3900	0.915	0.00330	4.00 x 10 ⁻⁶
4200	0.909	0.00353	4.44 x 10 ⁻⁶
4500	0.903	0.00377	4.89 x 10 ⁻⁶

Performance Characteristics

Parameter	Requirement Δ R ±(% + 0.05Ω)		Test Method
	Limit	Typical	
Resistance	Within specified tolerance	—	25°C
T.C.R.	Within specified T.C.R.	—	+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
Low Temperature Exposure	—	±0.05% (Ref)	-40°C, 45 minutes
High Temperature Exposure	—	±0.6% (Ref)	+125°C, 1000 hours

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

12/31/08