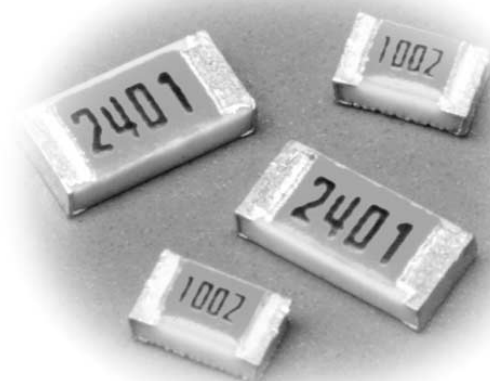


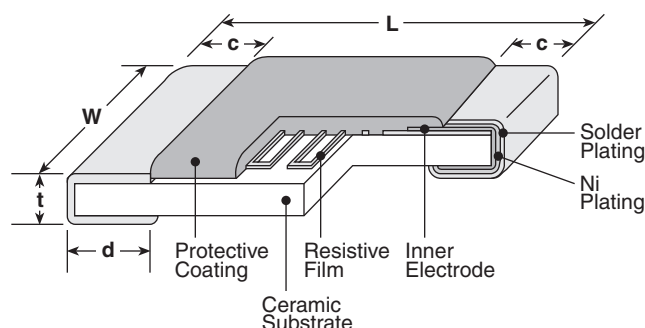


features

- 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

circuit
protection

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 L: SnPb	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	

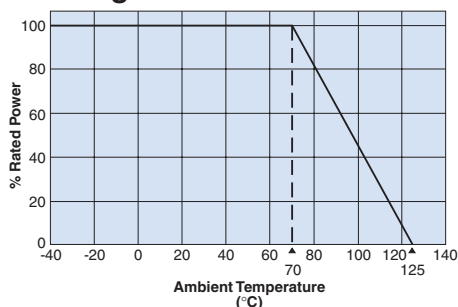
Resistance Range E-24*		Resistance Tolerance	T.C.R. (ppm/°C) Maximum**	T.C.R. Tolerance
LT732A	LT732B			
2KΩ - 24KΩ	2KΩ - 51KΩ	G: ±2%	150, 250, 350, 450, 500	±100ppm/°C
1KΩ - 20KΩ	1KΩ - 43KΩ	J: ±5%	600, 700, 800, 900	±150ppm/°C
1KΩ - 13KΩ	1KΩ - 27KΩ		1000, 1200, 1400	±15%
510Ω - 4.7KΩ	1KΩ - 10KΩ		1600, 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.

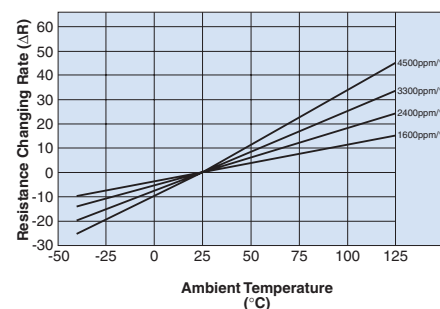
** T.C.R. is factory tested from 25°C to 75°C.

environmental applications

Derating Curve



Examples of Temperature Characteristics of Resistance



Approximate Expression for Resistance-Temperature Characteristics

T.C.R. (x10 ⁶ /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	Maximum Δ R	Test Method
Thermal Shock	±1.0%	MIL-STD-202, Method 107, -55°C to +155°C, 5 cycles
Low Temperature Operation	±1.0%	MIL-R-55342 π 4.7.4, 1 Hour @ -55°C followed by 45 minutes of RCWV*
High Temperature Exposure	±1.0%	MIL-R-55342 π 4.7.6, 100 hours @ 125°C
Short Time Overload	±1.0%	MIL-R-55342 π 4.7.5, 2.5 x RCWV for 5 seconds
Resistance to Solder Heat	±1.0%	MIL-R-55342 π 4.7.7, 260°C for 10 seconds
Terminal Strength-Bend	±1.0%	2mm min. deflection in either direction for 10 seconds
Moisture Resistance	±3.0%	MIL-STD-202, Method 103, 40°C, 90 - 95% RH, 1000 hours
Life	±3.0%	MIL-STD-202, Method 108, 70°C, 1000 hours @ RCWV, 1.5 hr ON, 0.5 hr OFF
Temperature Cycling	±1.0%	30 minutes @ -55°C, 15 minutes @ +25°C, 30 minutes @ +125°C, 15 minutes @ +25°C, 5 cycles

* RCWV = Rated Continuous Working Voltage.

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

4/04/05