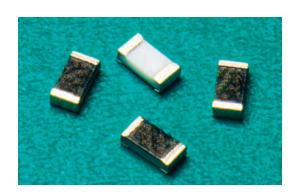


RS73-RT

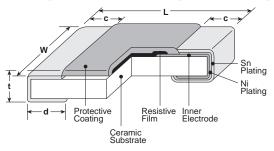
high reliability chip resistors (anti-sulfuration)



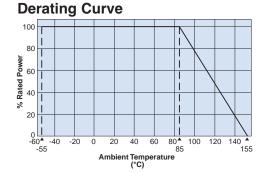
features

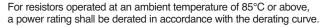
- Excellent anti-sulfuration characteristic due COMPLIANT to using high sulfuration-proof inner top electrode material
- Metal-glaze thick film resistor for surface mounting
- High precision resistor with T.C.R. down to 25 ppm and tolerance as tight as ±0.1%
- High reliability with ΔR of $\pm 0.2\%$ and $\pm 0.5\%$ in the reliability test
- Suitable for both flow and reflow solderings
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Tested

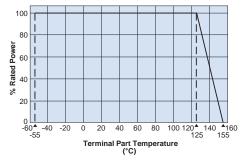
dimensions and construction



Туре	Dimensions inches (mm)						
(Inch Size Code)	L	W	С	d	t		
1E (0402)	.039 +.004 002 (1.0 +0.1 -0.05)	.020±.002 (0.5±0.05)	.008±.004 (0.2±0.1)	.010 +.02 004 (0.25 +0.05 -0.1	.014±.002 (0.35±0.05)		
1J (0603)	.063±.008 (1.6±0.2)	.031±.004 (0.8±0.1)	.008±.004 (0.2±0.1)	.012±.004 (0.3±0.1)	.018±.004 (0.45±0.1)		
2A (0805)	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.010±.006 (0.25±0.15)	.012 +.008 004 (0.3 +0.2)	.020±.004 (0.5±0.1)		
2B (1206)	.126±.008 (3.2±0.2)	.063±.008 (1.6±0.2)	.014±.006 (0.35±0.15)	.016 +.008 004 (0.4 +0.2)	.024±.004 (0.6±0.1)		

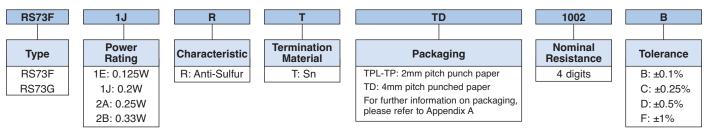






For resistors operated terminal part temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve. Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog before use.

ordering information



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

7/25/23





high reliability chip resistors (anti-sulfuration)

applications and ratings

Part Designation	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (X 10 ⁻⁶ /K)	B±0.1% E-24, E-96	C±0.25%	D±0.5% E-24, E-96	F±1% E-24, E-96	Maximum Working Voltage	Maximum Overload Voltage	Operating Temperature Range
RS73F1E (0402)	.125W			±25*1	300Ω - 100kΩ	300Ω - 1MΩ	300Ω - 1MΩ	300Ω - 1MΩ	75V	100V	-55°C to +155°C
RS73G1E (0402)	.12344			±50							
RS73F1J (0603)	.2W			±25*1	10Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1MΩ	100V	150V	
RS73G1J (0603)	.∠٧٧	85°C	+125°C	±50							
RS73F2A (0805)		05 0	+125 0	±25*1	10Ω -	10Ω -	10Ω - 10MΩ	10Ω - 10MΩ	150V	300V	
RS73G2A (0805)				±50	ЗМΩ	6.8ΜΩ					
RS73F2B (1206)	.33W			±25*1	10Ω -	10Ω -			200V	400V	
RS73G2B (1206)				±50	5.1ΜΩ	5.1ΜΩ					

Rated voltage = $\sqrt{\text{Power rating x resistance value or max.}}$ working voltage, whichever is lower

environmental applications

Performance Characteristics

	Requirement A	R ±(%+0.05Ω)	
Parameter	Limit	Typical	Test Method
Resistance	Within specified tolerance	1	25°C
T.C.R.	Within specified T.C.R.		+25°C/-55°C and +25°C/+125°C
Overload (Short time)	±0.2%	±0.03%	Rated Voltage x 2.5 for 5 seconds
Resistance to Solder Heat	±0.2%	±0.1%	260°C ± 5°C, 10 seconds ± 1 second
Rapid Change of Temperature	0.2: 1E (300Ω≤R≤20kΩ) 1J (10Ω≤R≤1MΩ) 2A, 2B (10Ω≤R≤10MΩ) 0.4: others	0.05: 1E (300Ω≤R≤20kΩ) 1J (10Ω≤R≤1MΩ) 2A, 2B (10Ω≤R≤10MΩ) 0.2: others	-55°C (30 minutes), +125°C (30 minutes), 1000 cycles
Moisture Resistance	0.2: 1E (300Ω≤R≤10kΩ) 1J (10Ω≤R≤200kΩ) 2A, 2B (10Ω≤R≤10MΩ) 0.4~0.5: others	0.04: 1E (300Ω≤R≤10kΩ) 1J (10Ω≤R≤200kΩ) 2A, 2B (10Ω≤R≤10MΩ) 0.08:others	40°C ± 2°C, 90%-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 85°C	0.2: 1E (300Ω≤R≤20kΩ) 1J (10Ω≤R≤1MΩ) 2A, 2B (10Ω≤R≤10MΩ) 0.4: others	0.05: 1E $(300\Omega \le R \le 20k\Omega)$ 1J $(10\Omega \le R \le 1M\Omega)$ 2A, 2B $(10\Omega \le R \le 10M\Omega)$ 0.2: others	85°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
High Temperature Exposure	0.2: 1E (300Ω≤R≤10kΩ) 1J (10Ω≤R≤200kΩ) 2A, 2B (10Ω≤R≤100kΩ) 0.4~0.5: others	0.1: 1E (300Ω≤R≤10kΩ) 1J (10Ω≤R≤200kΩ) 2A, 2B (10Ω≤R≤100kΩ) 0.2~0.3: others	+155°C, 1000 hours
Sulfuration Test	±5%	±0.2%	Soaked in industrial oil with sulfur substance 3.5% 105°C ± 3°C, 500hr

Please refer to conventional products for characteristic data such as temperature rise.

¹⁴ Measurement Temperature: +25°C/+125°C. Cold T.C.R. (-55°C/+25°C) is -50~+25x10-6/K

² Please inquire about E-192

If any questions arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating curves in the terminal part temperature" in the beginning of the catalog.