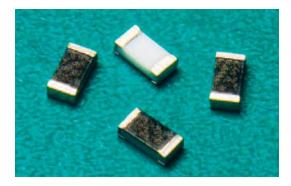


high reliability chip resistors (anti-sulfuration)



features



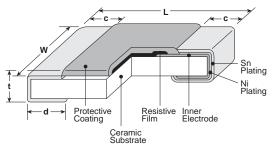
• Excellent anti-sulfuration characteristic due COMPLIANT to using high sulfuration-proof inner top electrode material

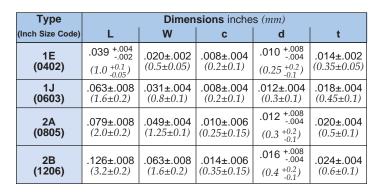
2573-6

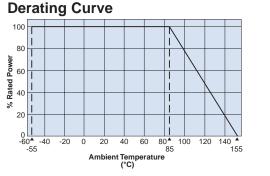
- Metal-glaze thick film resistor for surface mounting
- High precision resistor with T.C.R. down to 25 ppm and tolerance as tight as ±0.1%
- High reliability with ΔR of ±0.2% and ±0.5% in the reliability test
- Suitable for both flow and reflow solderings
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.

AEC-Q200 Tested

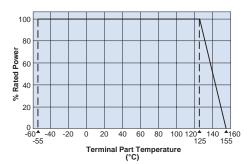
dimensions and construction





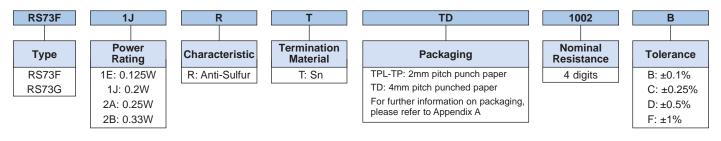


For resistors operated at an ambient temperature of 85°C or above, a power rating shall be derated in accordance with the derating curve.



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.

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RS73-R

applications and ratings

Part Designation	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (X 10⁵/K)	B±0.1% E-24, E-96	C±0.25%	e Range* ² 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	85°C	+125°C	±25*1	300Ω - 100kΩ	300Ω - 1MΩ	300Ω - 1MΩ	300Ω - 1MΩ	75V	100V	-55°C to +155°C
RS73G1E (0402)				±50							
RS73F1J (0603)	2)//			±25*1	10Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1ΜΩ	100V	150V	
RS73G1J (0603)	.2W			±50							
RS73F2A (0805)	.25W			±25*1	10Ω -	10Ω - 6.8MΩ	10Ω - 10ΜΩ	10Ω - 10ΜΩ	150V	300V	
RS73G2A (0805)				±50	3MΩ						
RS73F2B (1206)	.33W			±25*1	10Ω -	10Ω -			200V	400V	
RS73G2B (1206)				±50	5.1MΩ	5.1MΩ					

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

^{*1} Measurement Temperature: +25°C/+125°C. Cold T.C.R. (-55°C/+25°C) is -50~+25x10⁶/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.

environmental applications

Performance Characteristics

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	Requirement A	AR ±(%+0.05Ω)			
Parameter	Limit	Typical	Test Method		
Resistance	Within specified tolerance	—	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≤30kΩ) 1J (10Ω≤R≤1MΩ) 2A, 2B (10Ω≤R≤10MΩ) 0.4: others	0.05: 1E (300Ω≤R≤30kΩ) 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≤30kΩ) 1J (10Ω≤R≤200kΩ) 2A, 2B (10Ω≤R≤10MΩ) 0.4~0.5: others	0.04: 1E (300Ω≤R≤30kΩ) 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≤30kΩ) 1J (10Ω≤R≤1MΩ) 2A, 2B (10Ω≤R≤10MΩ) 0.4: others	0.05: 1E (300Ω≤R≤30kΩ) 1J (10Ω≤R≤1MΩ) 2A, 2B (10Ω≤R≤10MΩ) 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≤30kΩ) 1J (10Ω≤R≤200kΩ) 2A, 2B (10Ω≤R≤100kΩ) 0.4~0.5: others	0.1: 1E (300Ω≤R≤30kΩ) 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% $105^{\circ}C \pm 3^{\circ}C$, 500hr		

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

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3/08/23