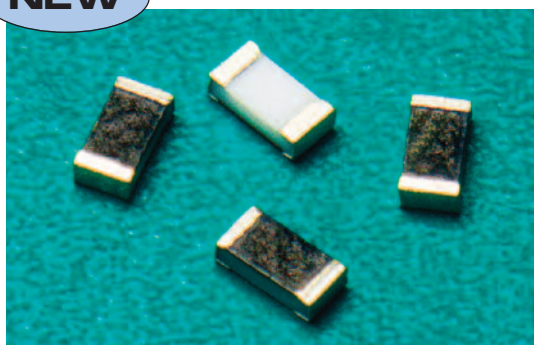
NEW

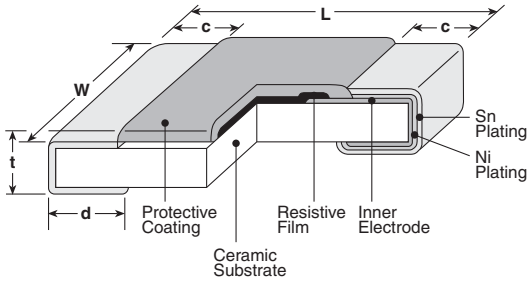


EU RoHS COMPLIANT

features

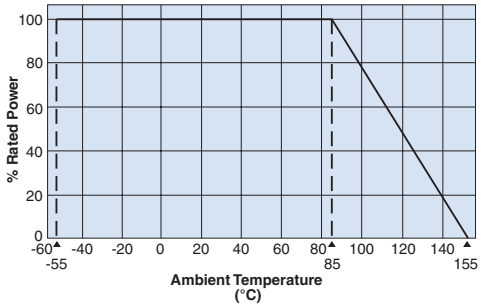
- Metal-glaze thick film resistor for surface mounting
- High precision resistor with T.C.R. ±25x10^{-6}/K and tolerance ±0.1%
- High reliability with ΔR of ±0.2% and ±0.5% in the reliability test
- Suitable for both flow and reflow solderings
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Qualified

dimensions and construction

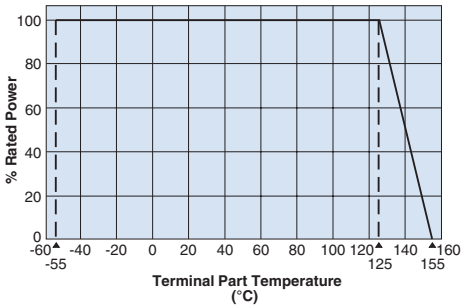


Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
1J (0603)	.063±.008 (1.6±0.2)	.031±.004 (0.8±0.1)	.008±.004 (0.2±0.1)	.012±.004 (0.3±0.1)	.018±.004 (0.45±0.1)
2A (0805)	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.010±.006 (0.25±0.15)	.012 $^{+.008}_{-.004}$ (0.3 $^{+0.2}_{-0.1}$)	.020±.004 (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 $^{+0.2}_{-0.1}$)	.024±.004 (0.6±0.1)

Derating Curve



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

RS73F	1J	T	TD	1002	B
Type	Power Rating	Termination Material	Packaging	Nominal Resistance	Tolerance
RS73F RS73G	1J: 0.2W 2A: 0.25W 2B: 0.33W	T: Sn	TD: 4mm pitch punched paper For further information on packaging, please refer to Appendix A	4 digits	B: ±0.1% C: ±0.25% D: ±0.5% F: ±1%

7/01/19

KOA SPEER ELECTRONICS, INC.

RS73

high reliability chip resistors

applications and ratings

Part Designation	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (X 10^{-6}/K)	Resistance Range*2 B±0.1% E-24, E-96	C±0.25% E-24, E-96	D±0.5% E-24, E-96	F±1% E-24, E-96	Maximum Working Voltage	Maximum Overload Voltage	Operating Temperature Range
RS73F1J (0603)	.2W	85°C	+125°C	±25*1	10Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1MΩ	100V	150V	-55°C to +155°C
RS73G1J (0603)				±50							
RS73F2A (0805)	.25W			±25*1	10Ω - 3MΩ	10Ω - 6.8MΩ	10Ω - 10MΩ	10Ω - 10MΩ	150V	300V	
RS73G2A (0805)				±50							
RS73F2B (1206)	.33W			±25*1	10Ω - 1MΩ	10Ω - 1MΩ			200V	400V	
RS73G2B (1206)				±50							

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

*1 Measurement Temperature: +25°C/+125°C. Cold T.C.R. (-55°C/+25°C) is -50~+25x10^{-6}/K

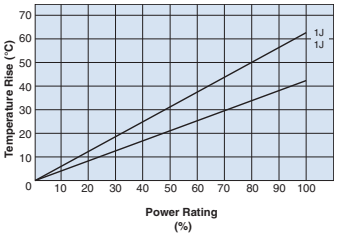
*2 Please inquire about E-192

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.

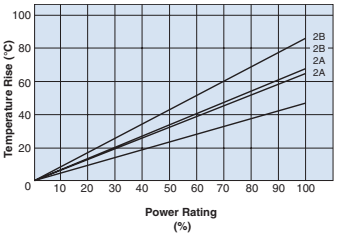
environmental applications

Temperature Rise

RS73 1J

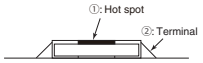


RS73 2A-2B



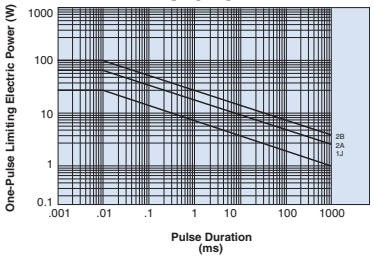
Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions.

Measurement condition
Room temperature: 25°C
PCB: FR-4t = 1.6mm
Cu foil thickness: 35μm



One-Pulse Limiting Electric Power

RS73 1J-2B



The maximum applicable voltage is equal to the max. overload voltage. Please ask us about the resistance characteristic of continuous applied pulse. The pulse endurance values are not assured values, so be sure to check the products on actual equipment when you use them.

Performance Characteristics

Parameter	Requirement Δ R ±(%+0.05Ω) 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%	±0.05%	-55°C (30 minutes), +125°C (30 minutes), 1000 cycles
Moisture Resistance	±0.2%: 1J (100Ω≤R≤200kΩ) 2A, 2B (10Ω≤R≤10MΩ) ±0.4%: other	±0.04%: 1J (100Ω≤R≤200kΩ) 2A, 2B (10Ω≤R≤10MΩ) ±0.08%: other	40°C ± 2°C, 90%-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 85°C	±0.2%	±0.05%	85°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
High Temperature Exposure	±0.2%: 1J (100Ω≤R≤200kΩ) 2A, 2B (10Ω≤R≤100kΩ) ±0.4~0.5%: other	±0.1%: 1J (100Ω≤R≤200kΩ) 2A, 2B (10Ω≤R≤100kΩ) ±0.2~0.3%: other	+155°C, 1000 hours