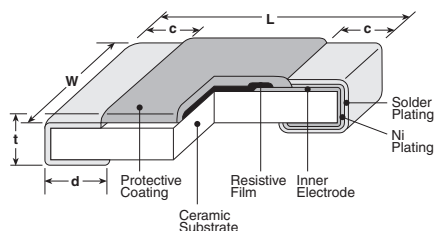


features

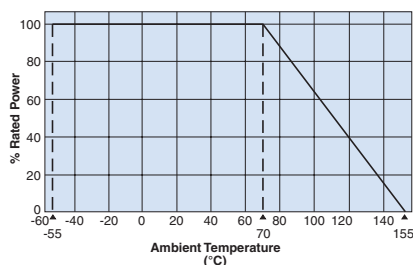
- Excellent anti-sulfuration characteristic due to using high sulfuration-proof inner top electrode material
- Excellent heat resistance and weather resistance are ensured by the use of metal glaze thick film
- High stability and high reliability with the triple-layer structure of electrode
- Suitable for both flow and reflow solderings
- Marking: Black protective coat on RK73B, RK73Z1J, 2A, 2B, 2E, W2H, W3A
Blue protective coat on RK73H
Green protective coat on RK73Z1E
- Products with lead-free terminations meet EU RoHS requirements. Pb located in glass material, electrode and resistor element is exempt per Annex 1, exemption 5 of EU directive 2005/95/EC



dimensions and construction



Derating Curve



ordering information

New Part #	RK73H	2A	RT	TD	1002	F
Type	RK73B RK73H	1E 1J 2A 2B 2E W2H W3A	Termination Surface Material RT: Sn Anti-Sulfur	Packaging TPL: 0402 only: 2mm pitch punch paper TP: 0402, 0603, 0805: 7" 2mm pitch punch paper TD: 0603, 0805, 1206, 1210: 7" 2mm pitch punched paper TDD: 0603, 0805, 1206, 1210: 10" paper tape TE: 0805, 1206, 1210, 2010 & 2512: 7" punched plastic TED: 0805, 1206, 1210, 2010 & 2512: 10" punched plastic For further information on packaging, please refer to Appendix A	Nominal Resistance RK73B: 3 digits RK73H: 4 digits	Resistance Tolerance D: ±0.5% F: ±1% G: ±2% J: ±5%
New Part #	RK73Z	2A	RT	TD		
Type		Current Rating 1E, 1J: 1A 2A, 2B, 2E, W2H, W3A	Termination Surface Material RT: Sn Anti-Sulfur	Packaging TPL: 0402 only: 2mm pitch punch paper TP: 0402, 0603, 0805: 7" 2mm pitch punch paper TD: 0603, 0805, 1206, 1210: 7" 2mm pitch punched paper TDD: 0603, 0805, 1206, 1210: 10" paper tape TE: 0805, 1206, 1210, 2010 & 2512: 7" punched plastic TED: 0805, 1206, 1210, 2010 & 2512: 10" punched plastic For further information on packaging, please refer to Appendix A		

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applications and ratings

Part Designation	Power Rating @ 70°C	T.C.R. (ppm/°C) Max.	Resistance Range				Maximum Working Voltage	Maximum Overload Voltage	Rated Ambient Temp.	Operating Temp. Range		
			RK73H		RK73B							
			E24, E96 (D±0.5%)	E24, E96 (F±1%)	E24 (G±2%)	E24 (J±5%)						
RK73B1E RK73H1E	0.063W	±200	—	1.02MΩ - 10MΩ	10Ω - 10MΩ	1Ω - 10MΩ	50V	100V	+70°C	-55°C to +155°C		
		±100	100Ω - 1MΩ	10Ω - 1MΩ	—	—						
RK73B1J RK73H1J	0.1W	±200	—	1.02MΩ - 10MΩ	10Ω - 10MΩ	1Ω - 10MΩ					150V	200V
		±100	100Ω - 1MΩ	10Ω - 1MΩ	—	—						
RK73B2A RK73H2A	0.125W	±200	—	1.02MΩ - 10MΩ	10Ω - 10MΩ	1Ω - 10MΩ	200V	400V				
		±100	100Ω - 1MΩ	10Ω - 1MΩ	—	—						
RK73B2B RK73H2B	0.25W	±200	—	1.02MΩ - 10MΩ	10Ω - 10MΩ	1Ω - 10MΩ	200V	400V				
		±100	100Ω - 1MΩ	10Ω - 1MΩ	—	—						
RK73B2E RK73H2E	0.5W	±200	—	—	10Ω - 1kΩ	1Ω - 1kΩ						
	0.33W				1.1kΩ - 1MΩ	1.1kΩ - 1MΩ						
	0.5W	±100	100Ω - 1kΩ	10Ω - 1kΩ	—	—						
	0.33W										1.02kΩ - 1MΩ	1.02kΩ - 1MΩ
RK73BW2H RK73HW2H	0.75W	±200	—	1.02MΩ - 10MΩ	10Ω - 10MΩ	1Ω - 10MΩ						
		±100	10Ω - 1MΩ	10Ω - 1MΩ	—	—						
RK73BW3A RK73HW3A	1W	±200	—	1.02MΩ - 10MΩ	10Ω - 10MΩ	1Ω - 10MΩ						
		±100	10Ω - 1MΩ	10Ω - 1MΩ	—	—						

Part Designation*	Resistance	Current Rating	Maximum Surge Current	Rated Ambient Temperature	Operating Temperature Range
RK73Z1E	50mΩ max.	1A	2A	+70°C	-55°C to +155°C
RK73Z1J					
RK73Z2A		2A	5A		
RK73Z2B			10A		
RK73Z2E					
RK73ZW2H					
RK73ZW3A					

environmental applications

Performance Characteristics

Parameter	RK73H, RK73B Requirement Δ R		RK73Z Requirement Δ R		Test Method
	Limit	Typical	Limit	Typical	
Resistance	Within specified tolerance	—	R≤50mΩ	R≤40mΩ	25°C
T.C.R.	Within specified T.C.R.	—	N/A	N/A	+25°C/-55°C and +25°C/+125°C
Overload (Short time)	±2%	±0.8%	R≤50mΩ	R≤40mΩ	RK73B, RK73H Rated Voltage x 2.5 for 5 seconds (2B: Rated Voltage x 2 for 5 seconds) RK73Z: Max. surge current for 5 seconds
Resistance to Solder Heat	±1%, ±3%*	±1%, ±0.5%**	R≤50mΩ	R≤40mΩ	260°C ± 5°C, 10 seconds ± 1 second
Rapid Change of Temperature	±0.5%	±0.3%	R≤50mΩ	R≤40mΩ	-55°C (30 minutes), +125°C (30 minutes), 100 cycles
Moisture Resistance	±2%: 1J, 2A, 2B ±3%: Another	±0.75%: 1J, 2A, 2B; ±1%: Another	R≤100mΩ	R≤50mΩ	40°C ± 2°C, 90%-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 70°C	±2%: 1J, 2A, 2B ±3%: Another	±0.75%: 1J, 2A, 2B; ±1%: Another	R≤100mΩ	R≤50mΩ	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
High Temperature Exposure	±1%	±0.5%	R≤50mΩ	R≤40mΩ	+155°C, 1000 hours
Sulfuration Test	—	±0.5%	—	R≤40mΩ	H ₂ S 1000 ppm, 25°C, 90%Rh, 720 hours

* ±1%: 10Ω≤R≤1MΩ; ±3%: R<10Ω, R>1MΩ

** ±1%: R<10Ω, R>1MΩ; ±0.5%: Another

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