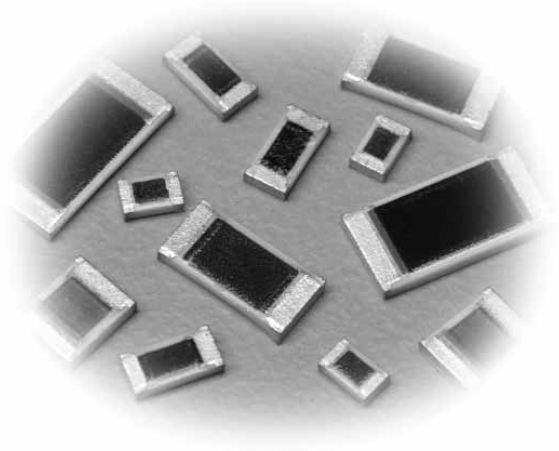
KOA SPEER ELECTRONICS, INC.

RK73N

trimmable chip resistor

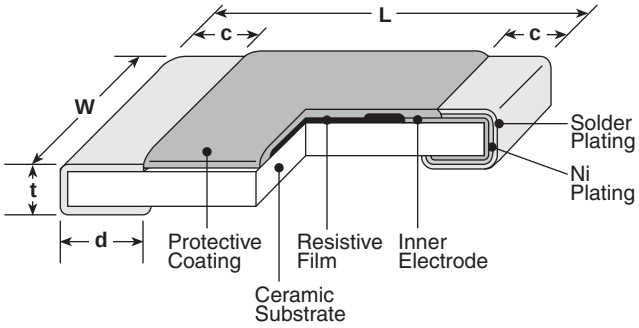
EU RoHS COMPLIANT



features

- Same quality thick film construction as type RM
- Glass passivated, supplied without protective coat
- Anti-leaching nickel barrier terminations
- Trimmable in circuit 2x original value
- Replaces trimmer in critical circuit adjustments
- Marking: Black body with no marking
- 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



Type (Inch Size Code)	Dimensions inches (mm) L	W	c	d	t
1E (0402)	.039 $^{+.004}_{-.002}$ ($1.0\ ^{+0.1}_{-0.05}$)	.02±.002 (0.5±0.05)	.008±.004 (0.2±0.1)	.01 $^{+.002}_{-.004}$ ($0.25\ ^{+0.05}_{-0.1}$)	.013±.002 (0.33±0.05)
1J (0603)	.063±.008 (1.6±0.2)	.031±.004 (0.8±0.1)	.012±.004 (0.3±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)	.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±.012 (0.5±0.3)	.016 $^{+.008}_{-.004}$ ($0.4\ ^{+0.2}_{-0.1}$)	.024±.004 (0.6±0.1)
2E (1210)		.102±.008 (2.6±0.2)			
2H (2010)	.197±.008 (5.0±0.2)	.098±.008 (2.5±0.2)		.025±.005 (0.65±0.15)	
3A (2512)	.248±.008 (6.3±0.2)	.122±.008 (3.1±0.2)			

ordering information

New Part #

RK73N	2B	T	TD	102	W
Type	Size	Termination Material	Packaging	Nominal Resistance	Tolerance
	1E 1J 2A 2B 2E 2H 3A	T: Sn L: SnPb (Other termination styles may be available, please contact factory for options)	TP: 2mm pitch punched paper (0402, 0603 & 0805) TD: 7" paper tape (0603, 0805, 1206 &1210) TDD: 10" paper tape (0603, 0805, 1206 &1210) TE: 7" punched plastic (0805, 1206, 1210, 2010 & 2512) TED: 10" punched plastic (0805, 1206, 1210, 2010 & 2512)	2 significant figures + 1 multiplier	N: 0 ~ -20% P: 0 ~ -30% W: ±10% M: ±20%

For further information on packaging, please refer to Appendix A.

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

1/26/07

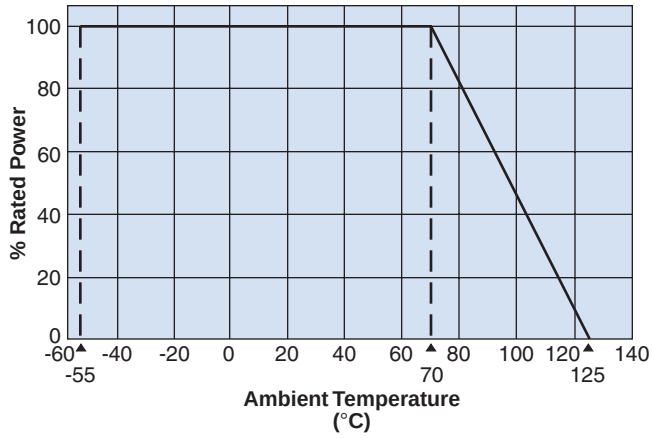
applications and ratings

Part Designation*	Power Rating @ 70°C	T.C.R. (ppm/°C) Max.	Resistance Range E-12**	Resistance Tolerance	Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temperature Range
RK73N1E (0402)	1/16W (.063W)	±200	10Ω - 1MΩ	N: 0 ~ -20% P: 0 ~ -30% W: ±10% M: ±20%	50V	100V	-55°C to +125°C
RK73N1J (0603)	1/10W (.10W)						
RK73N2A (0805)	1/8W (.125W)				100V	200V	
RK73N2B (1206)	1/4W (.25W)				200V	400V	
RK73N2E (1210)	1/3W (.33W)						
RK73N2H (2010)	3/4W (.75W)						
RK73N3A (2512)	1W						

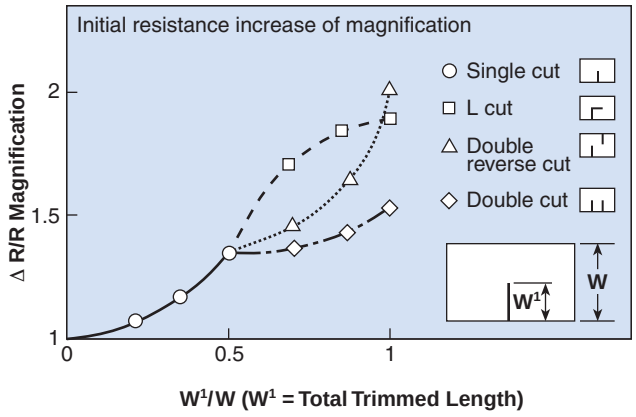
* Parenthesis indicate EIA package size codes.
** See Appendix D for available decade values.

environmental applications

Derating Curve



Resistance Rising Rate



For complete environmental specifications, please refer to pages 34-35.

The Trimmable chip resistor is suitable for the circuit demanding high stability as a replacement of variable resistors for adjusting circuit. Please note that customers need laser trimming equipment.

Trimming by laser increases the initial resistance. Amount of resistance increase is dependent on the laser cut configuration as shown.

W^1 must not exceed 1/2W to ensure power rating of the unit.