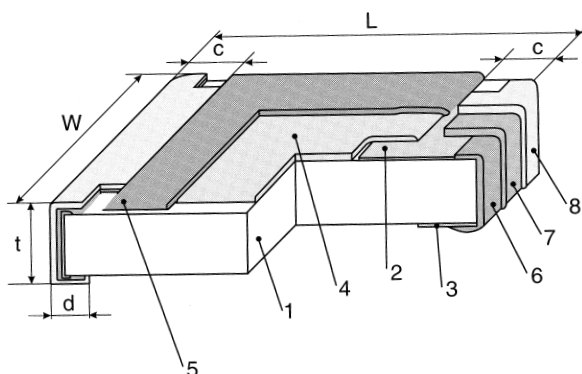
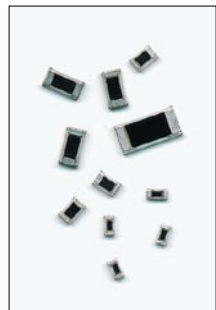


FLAT CHIP TRIMMABLE THICK FILM RK73N



STRUCTURE

- 1 Ceramic substrate
- 2 Top termination (Ag Pd)
- 3 Bottom termination (Ag)
- 4 Resistive layer
- 5 Glass layer
- 6 End termination
- 7 Diffusion barrier (Ni)
- 8 End termination

IDENTIFICATION

TYPE	COATING COLOR	MARKING
RK73N	Black resistive layer (no coating)	None

Products with Pb-free terminations meet EU-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

RK73N	1J	T	TD	103	P
PRODUCT CODE	STYLE 1E...W3A	TERMINATION SURFACE MATERIAL T: Sn (L: Sn/Pb)	TAPING* TP, TD, TE, BK *Please see "PACKAGING"	NOMINAL RESISTANCE 3 digits	TOLERANCE W: (±10%) P: (0...-30%) N: (0...-20%) M: (±20%)

FEATURES

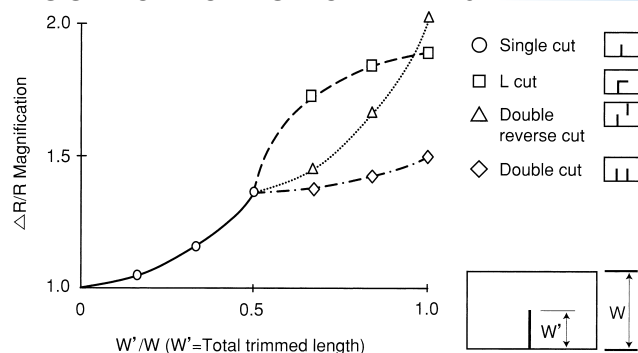
- This trimmable chip resistor is suitable for the circuit demanding stability as a replacement of variable resistor for adjusting circuit (customers need laser trimming machines)
- The resistance rising rate gets a limit value at the initial resistance x 2 and differs depending on the trimming form
- Glass passivated, supplied without protective coat
- Excellent heat resistance and moisture resistance are ensured by the use of metal glaze thick film
- Anti-leaching nickel barrier terminations
- Rated ambient temperature: + 70° C
- Operating temperature range: - 55° C ... + 125° C
- Meets or exceeds IEC 60115-8, JIS C 5201-8, EIAJ RC-2134A
- Suitable for reflow and wave soldering

DIMENSIONS (mm)

TYPE	L	W	c	d	t
RK73N 1E	1.0 ^{+ 0.1} _{- 0.05}	0.5 ± 0.05	0.2 ± 0.1	0.25 ^{+ 0.05} _{- 0.1}	0.33 ±0.05
RK73N 1J	1.6 ±0.2	0.8 ± 0.1	0.3 ± 0.1	0.3 ± 0.1	0.45 ±0.1
RK73N 2A	2.0 ±0.2	1.25 ± 0.1	0.4 ± 0.2	0.3 ^{+ 0.2} _{- 0.1}	0.5 ±0.1
RK73N 2B	3.2 ±0.2	1.6 ± 0.2	0.5 ± 0.3	0.4 ^{+ 0.2} _{- 0.1}	0.6 ±0.1
RK73N 2E		2.6 ± 0.2			
RK73N W2H*	5.0 ±0.2	2.5 ± 0.2		0.65 ± 0.15*	
RK73N W3A*	6.3 ±0.2	3.1 ± 0.2			

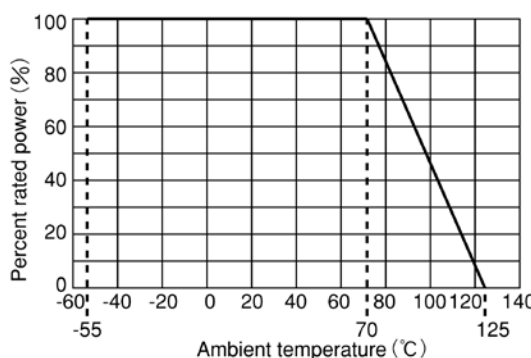
* RK73N 2H and RK73N 3A are also still available (different "d" dimensions = $0.4 \begin{smallmatrix} +0.2 \\ -0.1 \end{smallmatrix}$ mm)

RESISTANCE INCREASE vs. TRIMMING



Trimming by laser increases the initial resistance. Amount of resistance increase is dependant on the laser cut configuration as shown. W1 must not exceed 1/2 W to ensure power rating of the unit.

DERATING CURVE



RATING

SIZE	TYPE	T.C.R. (ppm/K)	POWER* RATING	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	RESISTANCE RANGE (E12)
						N(0... -20%) • P(0...-30%) • W(± 10%) • M(± 20%)
0402	RK73N 1E	± 200	0.063 W	50 V	100 V	10 Ω ... 1 MΩ
0603	RK73N 1J		0.1 W			
0805	RK73N 2A		0.125 W	100 V	200 V	
1206	RK73N 2B		0.25 W	200 V	400 V	
1210	RK73N 2E		0.33 W			
2010	RK73N 2H		0.75 W			
2512	RK73N 3A		1.0 W			

*For resistors operated at an ambient temperature of +70°C or above, the power rating shall be derated like shown in above "DERATING CURVE". Power ratings are changed by total trimmed length.

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

KOA Speer:

[RK73N2ATTD273M](#) [RK73N2ATTDD343M](#) [RK73N2ATTD682M](#) [RK73N2BTDD512P](#) [RK73N2ATTD103M](#)
[RK73N2ATTD752M](#) [RK73N2ATTD163M](#) [RK73N1JTDD120KW](#) [RK73N1JTDD15K0W](#) [RK73N1JTDD470KW](#)
[RK73N1JTDD8K20W](#) [RK73N2ATTDD203M](#) [RK73N2ATTD402M](#) [RK73N2ATTD403M](#) [RK73N2BLTD273P](#)
[RK73N2ATTDD241M](#) [RK73N2BTDD273P](#) [RK73N2ATTD203M](#) [RK73N2BTDD182P](#) [RK73N2ALTD511W](#)
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[RK73N2ATTD241M](#) [RK73N2ATTD301M](#) [RK73N2ATTDD102M](#) [RK73N2ATTDD103M](#) [RK73N2ATTDD152M](#)
[RK73N2ATTDD202M](#) [RK73N2ATTDD273M](#) [RK73N2ATTDD301M](#) [RK73N2ATTDD402M](#) [RK73N2ATTDD403M](#)
[RK73N2ATTDD682M](#) [RK73N2BLTD153N](#) [RK73N2BLTD223N](#) [RK73N2BTDD182P](#) [RK73N2BTDD273P](#)
[RK73N2BTDD512P](#) [RK73N2BTDD622P](#) [RK73N2BTDD622P](#) [RK73N1JTDD124W](#) [RK73N1JTDD474W](#)
[RK73N1JTDD822W](#) [RK73N1JTDD153W](#)