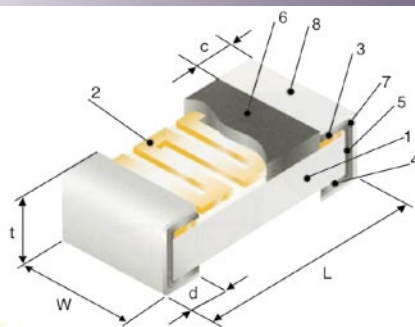


FLAT CHIP METAL THIN FILM PRECISION RN73



STRUCTURE

- 1 Ceramic substrate
- 2 NiCr Thin film
- 3 Top termination (Cr Ni Cu)
- 4 Bottom termination (Cr Ni Cu)
- 5 End termination (Ni Cr)
- 6 Protective coat
- 7 Ni Barrier
- 8 Solder Plating

IDENTIFICATION

TYPE	COATING COLOR	MARKING
RN73 1E	Black	None
RN73 1J	Green	Yellow, 3 digits (E24)*
RN73 2A ... 2E		None (E96)
		Yellow, 4 digits*

* Red marking for T.C.R. ± 5 and ± 10 ppm/K

Products with Pb-free terminations meet RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

RN73	2A	T	TD	1002	B	10
PRODUCT CODE RN73 RN73S	STYLE 1E...2E	TERMINATION SURFACE MATERIAL T: Sn L: Sn/Pb	TAPING* TP, TD, TE, BK *Please see "PACKAGING"	NOMINAL RESISTANCE 4 digits	TOLERANCE A, B, C, D, F	T.C.R. (ppm/K) 05,10,25,50,100 (2 or 3 digits)

FEATURES

- High precision chip resistor
- Tolerance $\pm 0.05\%$ and TCR ± 5 ppm/K are available
- Nickel chromium thin film resistor element
- Anti-leaching nickel barrier terminations
- Low current noise
- Products with gold plated electrodes are also available on request
- RN73S: Products with improved moisture resistance
- Rated ambient temperature: $+70^\circ\text{C}$
- Operating temperature range: $-55^\circ\text{C} \dots +125^\circ\text{C}$
- Suitable for control circuits in various industrial equipment
- Suitable for reflow and wave soldering in size for 1J to 2E
- Suitable for reflow soldering in size 1E

DIMENSIONS (mm)

SIZE	TYPE	L	W	c	d	t
0402	RN73 1E	1.0 $^{+0.1}_{-0.05}$	0.5 ± 0.05	0.2 ± 0.1	0.25 $^{+0.05}_{-0.1}$	0.35 ± 0.05
0603	RN73 1J	1.6 ± 0.2	0.8 ± 0.1	0.3 ± 0.1	0.3 ± 0.1	0.45 ± 0.1
0805	RN73 2A	2.0 ± 0.2	1.25 ± 0.2	0.4 ± 0.2	0.3 $^{+0.2}_{-0.1}$	0.5 ± 0.1
1206	RN73 2B	3.2 ± 0.2	1.6 ± 0.2	0.5 ± 0.3	0.4 $^{+0.2}_{-0.1}$	0.6 ± 0.1
1210	RN73 2E		2.5 ± 0.2			

NEW EXPANDED RANGE

RATING

SIZE	TYPE	T.C.R. (ppm/K)	POWER* RATING	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	RESISTANCE RANGE (E24 • E96) (E192 ON REQUEST)				
						A ($\pm 0.05\%$)	B ($\pm 0.1\%$)	C ($\pm 0.25\%$)	D ($\pm 0.5\%$)	F ($\pm 1\%$)
0402	RN73 1E	± 50	0.063 W	25 V	50 V	—	100 Ω ... 10 k Ω	100 Ω ... 10 k Ω	10 Ω ... 100 k Ω	10 Ω ... 100 k Ω
		± 25				—	100 Ω ... 10 k Ω	100 Ω ... 10 k Ω	10 Ω ... 10 k Ω	10 Ω ... 10 k Ω
0603	RN73 1J	$\pm 100^{**}$	0.063 W	50 V	100 V	—	—	—	10 Ω ... 330 k Ω	10 Ω ... 330 k Ω
		± 50				—	15 Ω ... 330 k Ω	15 Ω ... 330 k Ω	10 Ω ... 330 k Ω	10 Ω ... 330 k Ω
		± 25				1 k Ω ... 47 k Ω	15 Ω ... 150 k Ω	15 Ω ... 150 k Ω	10 Ω ... 150 k Ω	10 Ω ... 150 k Ω
		± 10				1 k Ω ... 47 k Ω	100 Ω ... 47 k Ω	100 Ω ... 47 k Ω	100 Ω ... 47 k Ω	100 Ω ... 47 k Ω
		$\pm 5^{***}$				1 k Ω ... 47 k Ω	100 Ω ... 47 k Ω	—	—	—
0805	RN73 2A	$\pm 100^{**}$	0.1 W	100 V	200 V	—	—	—	10 Ω ... 1 M Ω	10 Ω ... 1 M Ω
		± 50				—	15 Ω ... 1 M Ω	15 Ω ... 1 M Ω	10 Ω ... 1 M Ω	10 Ω ... 1 M Ω
		± 25				51 Ω ... 100 k Ω	15 Ω ... 1 M Ω	15 Ω ... 1 M Ω	10 Ω ... 1 M Ω	10 Ω ... 1 M Ω
		± 10				100 Ω ... 100 k Ω	100 Ω ... 100 k Ω	100 Ω ... 100 k Ω	100 Ω ... 100 k Ω	100 Ω ... 100 k Ω
		$\pm 5^{***}$				100 Ω ... 100 k Ω	100 Ω ... 100 k Ω	—	—	—
1206	RN73 2B	$\pm 100^{**}$	0.125 W	150 V	300 V	—	—	—	10 Ω ... 1 M Ω	10 Ω ... 1 M Ω
		± 50				—	15 Ω ... 1 M Ω	15 Ω ... 1 M Ω	10 Ω ... 1 M Ω	10 Ω ... 1 M Ω
		± 25				51 Ω ... 300 k Ω	15 Ω ... 1 M Ω	15 Ω ... 1 M Ω	10 Ω ... 1 M Ω	10 Ω ... 1 M Ω
		± 10				100 Ω ... 300 k Ω	100 Ω ... 300 k Ω	100 Ω ... 300 k Ω	100 Ω ... 300 k Ω	100 Ω ... 300 k Ω
		$\pm 5^{***}$				100 Ω ... 300 k Ω	100 Ω ... 300 k Ω	—	—	—
1210	RN73 2E	$\pm 100^{**}$	0.25 W	200 V	400 V	—	—	—	10 Ω ... 1 M Ω	10 Ω ... 1 M Ω
		± 50				—	15 Ω ... 1 M Ω	15 Ω ... 1 M Ω	10 Ω ... 1 M Ω	10 Ω ... 1 M Ω
		± 25				51 Ω ... 510 k Ω	15 Ω ... 1 M Ω	15 Ω ... 1 M Ω	10 Ω ... 1 M Ω	10 Ω ... 1 M Ω
		± 10				100 Ω ... 510 k Ω	100 Ω ... 510 k Ω	100 Ω ... 510 k Ω	100 Ω ... 510 k Ω	100 Ω ... 510 k Ω
		$\pm 5^{***}$				100 Ω ... 510 k Ω	100 Ω ... 510 k Ω	—	—	—

* For resistors operated at an ambient temperature of $+70^\circ\text{C}$ or above, the power rating shall be derated.

** Resistance for T.C.R. $H(\pm 100 \text{ ppm/K})$ are E24 series only.

*** TCR ± 5 ppm/K is guaranteed in the temperature range $+25^\circ\text{C} \dots +125^\circ\text{C}$.

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

The RN73S-series are products with improved moisture resistance. The resistors from RN73S-series are available in sizes 1J, 2A, 2B and 2E.

Please contact KOA for the available resistance range.