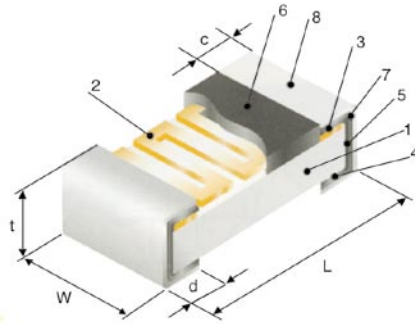
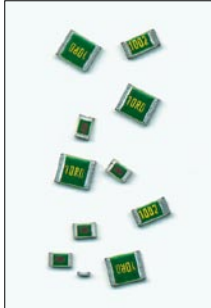


**FLAT CHIP
METAL THIN FILM
PRECISION
RN73 • RN73S**



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 EU-RoHS and China-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 ±0.05% and TCR ±5ppm/K are available
- Nickel chromium thin film resistor element
- Anti-leaching nickel barrier terminations
- Low current noise
- **RN73S:** Products with improved moisture resistance
- Suitable for control circuits in various industrial equipment
- Suitable for reflow and wave soldering in size 1J to 2E
- Suitable for reflow soldering in size 1E
- Meets or exceeds IEC 60115-8, JIS C 5201-8, EIAJ RC 2133A

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		0.4 ^{+0.2} / _{-0.1}	

NEW EXPANDED RANGE

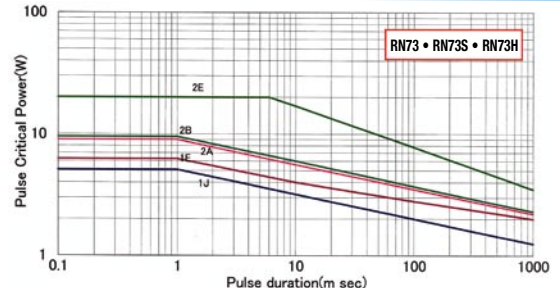
RATING

SIZE	TYPE	T.C.R. (ppm/K)	POWER* RATING	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	RESISTANCE RANGE (E24 • E96) (E192 ON REQUEST)				
						A (±0.05%)	B (±0.1%)	C (±0.25%)	D (±0.5%)	F (±1%)
0402	RN73 1E	± 50	0.063 W	25 V	50 V	—	100 Ω ... 100 kΩ	100 Ω ... 100 kΩ	10 Ω ... 100 kΩ	10 Ω ... 100 kΩ
		± 25				—	100 Ω ... 100 kΩ	100 Ω ... 100 kΩ	10 Ω ... 100 kΩ	10 Ω ... 100 kΩ
		± 100**				—	—	10 Ω ... 360 kΩ	10 Ω ... 360 kΩ	
0603	RN73 1J	± 50	0.063 W	50 V	100 V	—	15 Ω ... 360 kΩ	15 Ω ... 360 kΩ	10 Ω ... 360 kΩ	10 Ω ... 360 kΩ
		± 25				1 kΩ ... 47 kΩ	15 Ω ... 360 kΩ	15 Ω ... 360 kΩ	10 Ω ... 360 kΩ	10 Ω ... 360 kΩ
		± 10				1 kΩ ... 47 kΩ	100 Ω ... 47 kΩ	100 Ω ... 47 kΩ	100 Ω ... 47 kΩ	100 Ω ... 47 kΩ
0805	RN73 2A	± 5***	0.1 W	100 V	200 V	—	—	—	10 Ω ... 1 MΩ	10 Ω ... 1 MΩ
		± 100**				—	—	10 Ω ... 1 MΩ	10 Ω ... 1 MΩ	
		± 50				51 Ω ... 100 kΩ	15 Ω ... 1 MΩ	15 Ω ... 1 MΩ	10 Ω ... 1 MΩ	10 Ω ... 1 MΩ
1206	RN73 2B	± 25	0.125 W	150 V	300 V	100 Ω ... 100 kΩ	100 Ω ... 100 kΩ	100 Ω ... 100 kΩ	100 Ω ... 100 kΩ	100 Ω ... 100 kΩ
		± 10				100 Ω ... 100 kΩ	100 Ω ... 100 kΩ	—	—	—
		± 5***				—	—	—	—	—
1210	RN73 2E	± 100**	0.25 W	200 V	400 V	—	—	—	10 Ω ... 1 MΩ	10 Ω ... 1 MΩ
		± 50				—	—	10 Ω ... 1 MΩ	10 Ω ... 1 MΩ	
		± 25				51 Ω ... 300 kΩ	15 Ω ... 1 MΩ	15 Ω ... 1 MΩ	10 Ω ... 1 MΩ	10 Ω ... 1 MΩ
		± 10				100 Ω ... 300 kΩ	100 Ω ... 300 kΩ	100 Ω ... 300 kΩ	100 Ω ... 300 kΩ	

Rated ambient temperature: + 70° C
Operating temperature range: - 55° C ... + 125° C

- * For resistors operated at an ambient temperature of +70°C or above, the power rating shall be derated. Power rating depends on resistance value. Performance requirements are dependant on the power rating. Please consult with us for power rating before you order and use.
- Rated voltage = √ Power rating x resistance value or max. working voltage, whichever is lower.
- ** Resistance values for T.C.R. H(±100 ppm/K) are E24 series only.
- *** TCR ±5ppm/K is guaranteed in the temperature range +25°C...+125°C.
- RN73S:** 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.

ONE-PULSE LIMITING ELECTRIC POWER



Contact our sales representatives before you use our products for applications including automobiles, medical equipment and aerospace equipment. Malfunction or failure of the products in such applications may cause loss of human life or serious damage. Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order or use.