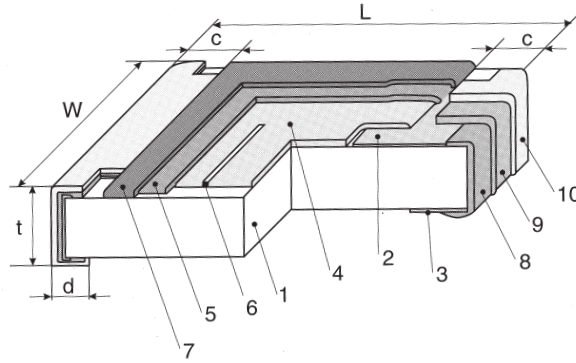


**FLAT CHIP
ENHANCED THICK FILM
RK73G**



STRUCTURE

- 1 Ceramic substrate
- 2 Top termination
- 3 Bottom termination
- 4 Resistive layer
- 5 Glass layer
- 6 Trimming cut
- 7 Protective layer
- 8 End termination
- 9 Diffusion barrier (Ni)
- 10 Solder plating



IDENTIFICATION

TYPE	COATING COLOR	MARKING
RK73G 1H, 1E	Black	None
RK73G 1J	Dark Blue	White, 3 digits (E24) None (E96)
RK73G 2A, 2B		White, 4 digits

Products with Pb-free terminations meet EU-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

RK73G	1J	T	TD	2212	F	Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS
PRODUCT CODE	STYLE	TERMINATION** SURFACE MATERIAL	TAPING*	NOMINAL RESISTANCE	TOLERANCE	
	1H: 0.05 W 1E: 0.063 W 1J: 0.1 W 2A: 0.125 W 2B: 0.25 W	T: Sn (L: Sn/Pb)	TA: 1mm pitch press paper TC, TCM: 2mm pitch press paper TP: 2mm pitch punch paper TD: 4mm pitch punch paper TE: 4mm pitch embossed plastic BK: Bulk	4 digits	D: (±0.5%) F: (±1%)	
		**Style 1H is only available in "T"	*Please see "PACKAGING"			

FEATURES

- Enhanced RuO₂ thick film resistor element
- Anti-leaching nickel barrier terminations
- High precision thickfilm with T.C.R. ±50 ppm/K and tolerance ±0.5 %
- Able to be used as replacement of several metal film chip resistors
- AEC-Q200 testdata are available on request
- Meets or exceeds IEC 60115-8, JIS C 5201-8, EIAJ RC-2134B
- Operating temperature range: -55° C ... +155° C (1E, 1J, 2A, 2B)
- Operating temperature range: -55° C ... +125° C (1H)
- Suitable for reflow and wave soldering

DIMENSIONS (mm)

SIZE	TYPE	L	W	c	d	t
0201	RK73G 1H	0.6 ± 0.03	0.3 ± 0.03	0.1 ± 0.05	0.15 ± 0.05	0.23 ± 0.03
0402	RK73G 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	RK73G 1J	1.6 ± 0.2	0.8 ± 0.1	0.3 ± 0.1	0.3 ± 0.1	0.45 ± 0.1
0805	RK73G 2A	2.0 ± 0.2	1.25 ± 0.1	0.4 ± 0.2	0.3 ^{+0.2} / _{-0.1}	0.5 ± 0.1
1206	RK73G 2B	3.2 ± 0.2	1.6 ± 0.2	0.5 ± 0.3	0.4 ^{+0.2} / _{-0.1}	0.6 ± 0.1

RATING

TYPE	POWER* RATING	MAX. WORKING VOLTAGE ¹⁾	MAX. OVERLOAD VOLTAGE ⁴⁾	SURFACE TEMPERATURE ²⁾	TYP. ΔR/R AFTER 1000h ³⁾	INSULATION RESISTANCE	FAILURE RATE
RK73G 1H	0.05 W	25 V	50 V	+125° C	ΔR ± (1% +0.05 Ω)	> 10 GΩ	< 0.01 FIT
RK73G 1E	0.063 W	50 V	100 V				
RK73G 1J	0.1 W	75 V	150 V				
RK73G 2A	0.125 W	150 V	200 V				
RK73G 2B	0.25 W	200 V	400 V				

Rated voltage = √Power rating x resistance value or max. working voltage, whichever is lower.

* For resistors operated at an ambient temperature of +70°C or above, the power rating shall be derated in accordance with below "DERATING CURVE".

- (1) The maximum value of D.C. voltage or A.C. voltage (effective value) capable of being applied continuously to a resistor.
- (2) The surface temperature is restricted by the maximum permissible solderpoint temperature.
- (3) Typical ΔR/R pertains to rated power at 70° C (Endurance).
- (4) The maximum value of D.C. or A.C. voltage (effective value) capable of being applied to a resistor for a short time.

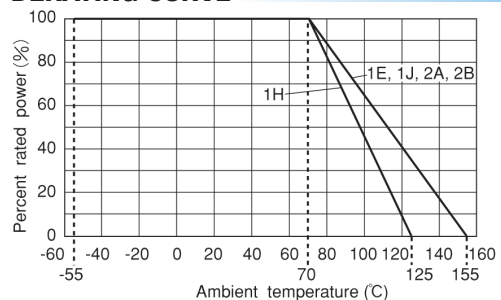
TEMPERATURE COEFFICIENTS AND RESISTANCE RANGES

SIZE	TYPE	T.C.R. (ppm/K)	RESISTANCE RANGE (E24 - E96)	
			D (±0.5%)	F (±1%)
0201	RK73G 1H**	± 50**	100 Ω ... 1 MΩ*	100 Ω ... 1 MΩ*
0402	RK73G 1E		10 Ω ... 1 MΩ	10 Ω ... 1 MΩ
0603	RK73G 1J		10 Ω ... 1 MΩ	10 Ω ... 1 MΩ
0805	RK73G 2A		10 Ω ... 1.8 MΩ	10 Ω ... 1.8 MΩ
1206	RK73G 2B		10 Ω ... 1 MΩ	10 Ω ... 1 MΩ

* The nominal resistance values for RK73G 1H are only available from E24 series.

** For size 1H the TCR ±50 ppm/k is valid in the temperature range +25°C ... +125°C.

DERATING CURVE



Contact our sales representatives before you use our products for applications including automotive, 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.