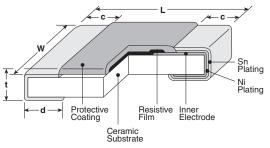






dimensions and construction



features

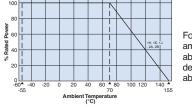


RK73G

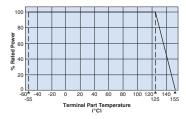
- Metal-glaze thick film resistor for surface mounting
- High precision resistor with T.C.R. of ±50 ppm/°C and tolerance of ±0.25%, ±0.5% or ±1%
- · Suitable for both flow and reflow solderings
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Tested

Туре	Dimensions inches (<i>mm</i>)						
(Inch Size Code)	L W		с	d	t		
1H (0201)	.024±.001 (0.6±0.03)	.012±.001 (0.3±0.03)	.004±.002 (0.1±0.05)	.006±.002 (0.15±0.05)	.009±.001 (0.23±0.03)		
1E (0402)	.039 +.004	.02±.002	.008±.004 (0.2±0.1)	.01 +.002 004 (0.25 +0.05 -0.1	.014±.002 (0.35±0.05)		
1E AT (0402)	$(1.0 \ ^{+0.1}_{-0.05})$	(0.5±0.05)	.01±.004 (0.25±0.1)	.012±.006 (0.3±0.15)			
1J (0603)	.063±.008	.031±.004 (0.8±0.1)	.012±.004 (0.3±0.1)	.012±.004 (0.3±0.1)	.018±.004 (0.45±0.1)		
1J AT (0603)	(1.6±0.2)		.014±.006 (0.35±0.15)	.02±.008 (0.5±0.2)			
2A (0805)	.079±.008	.049±.004	.016±.008 (0.4±0.2)	.012 +.008 004 (0.3 +0.2 -0.1)	.02±.004 (0.5±0.1)		
2A AT (0805)	(2.0±0.2)	(1.25±0.1)	.018±.010 (0.45±0.25)	.024±.008 (0.6±0.2)	.022±.004 (0.55±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)	$.024 \pm .004$		
2B AT (1206)	(J.2±0.2)		.022±.014 (0.55±0.35)	.031±.008 (0.8±0.2)	(0.6±0.1)		

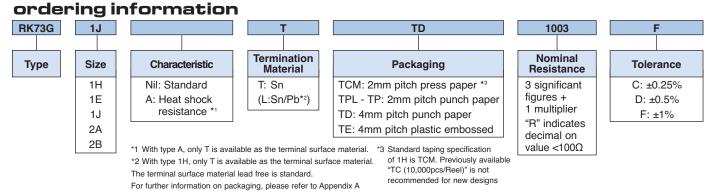
Derating Curve



For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the above derating curve.



For resistors operated at a terminal part temperature of described for each size or above, a power rating shall be derated in accordance with the above derating curve. Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog before use.



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

11/17/23





thick film 0.25%, 0.5%, 1% tolerance, 50ppm/°C chip resistor

applications and ratings

Part	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (ppm/°C) Max.	Resistance Range			Absolute Maximum	Absolute Maximum
Designation*					E-24, E-96 (C±0.25%)	E-24, E-96 (D±0.5%)	E-24, E-96 (F±1%)	Working Voltage	Overload Voltage
RK73G1H (0201)	.05W	70°C 125°C		±50		100Ω - 1ΜΩ**	100Ω - 1MΩ**	25V	50V
RK73G1E (0402)	.10W		125°C		100Ω - 1ΜΩ	10Ω - 1ΜΩ	10Ω - 1ΜΩ	50V	100V
RK73G1J (0603)	.10W							75V	150V
RK73G2A (0805)	.125W							150V	200V
RK73G2B (1206)	.25W							200V	400V

Operating Temperature Range: -55°C ~ +155°C

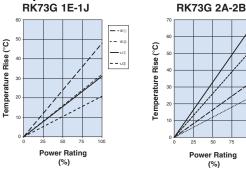
* Parentheses indicate EIA package size codes.

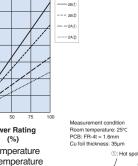
** RK73G1H available in E-24 decade values only

environmental applications

Temperature Rise RK73G 1E-1J

22

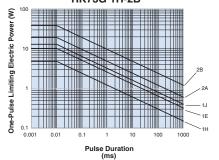




Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions.

Performance Characteristics

One-Pulse Limiting Electric Power RK73G 1H-2B



The maximum applicable voltage is equal to the max. overload voltage. Please ask us about the resistance characteristic of continuous applied pulse. The pulse endurance values are not assured values, so be sure to check the products on actual equipment when you use them.

	Requirement $\Delta R \pm (\%+0.1\Omega)$		
Parameter	Limit	Typical	Test Method
Resistance	Within specified tolerance	_	25°C
T.C.R.	Within specified T.C.R.	_	1H: +25°C/+125°C, 1E, 1J, 2A, 2B: +25°C/-55°C and +25°C/+125°C
Overload (Short time)	±2%	±0.6%	Rated Voltage x 2.5 for 5 seconds (1E, 2B: Rated Voltage x 2 for 5 seconds)
Resistance to Solder Heat	±1%	±1%: 1H, ±0.4%: 1E, 1J, 2A, 2B	$260^{\circ}C \pm 5^{\circ}C$, 10 seconds ± 1 second
Rapid Change of Temperature	±0.5%: Characteristic (Nil) Standard 1%: Characteristic (A) Heat Shock Resistance	±0.3%: Characteristic (Nil) Standard 0.5%: Characteristic (A) Heat Shock Resistance	Characteristic (Nil) Standard -55°C (30 minutes), +125°C (30 minutes), 100 cycles Characteristic (A) Heat Shock Resistance -55°C (30 minutes), +125°C (30 minutes), 1000 cycles
Moisture Resistance	±2%: 1J, 2A, 2B ±3%: 1H, 1E	±0.6%: 1J, 2A, 2B; ±1%: 1H, 1E	40°C \pm 2°C, 90%-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 70°C	±2%: 1J, 2A, 2B ±3%: 1H, 1E	±0.6%: 1J, 2A, 2B; ±1%: 1H, 1E	70°C \pm 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
High Temperature Exposure	±1%	±0.6%	+155°C, 1000 hours

2: Te

For Surface Temperature Rise Graph see Environmental Applications. Additional environmental applications can also be found at www.koaspeer.com Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use. 11/17/23

Mouser Electronics

Authorized Distributor

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KOA Speer:

RK73G2BTTD7502	F RK73G1ETTP2000	F RK73G2BTTD1001	F RK73G2BTTD15R0	F RK73G2BTTD1000F
RK73G2BTTD2491F	RK73G2BTTD1302F	RK73G2BTTD2492F	RK73G2BTTD4022F	RK73G2BTTD6042F
RK73G2BTTD1003F	RK73G2BTTD3573F	RK73G1JTTD3652F	RK73G2ALTD6810F	RK73G2ATTD2211D
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RK73G1JTTD2210F	RK73G1JTTD2493F	RK73G1JTTD33R0F	RK73G1JTTD4701F	RK73G1JTTD4991F
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