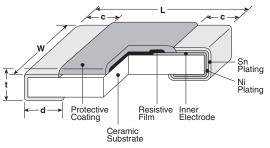






dimensions and construction



features

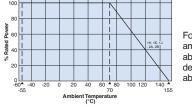


RK73G

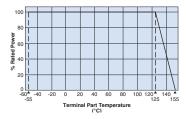
- Metal-glaze thick film resistor for surface mounting
- High precision resistor with T.C.R. of ±50 ppm/°C and tolerance of ±0.25%, ±0.5% or ±1%
- · Suitable for both flow and reflow solderings
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass 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	
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)	(0.35±0.05)	
1J (0603)	.063±.008	.031±.004	.012±.004 (0.3±0.1)	.012±.004 (0.3±0.1)	.018±.004	
1J AT (0603)	(1.6±0.2)	(0.8±0.1)	.014±.006 (0.35±0.15)	.02±.008 (0.5±0.2)	(0.45±0.1)	
2A (0805)	.079±.008	.049±.004	.016±.008 (0.4±0.2)	.012 +.008 004 (0.3 +0.2 -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±.004 (0.6±0.1)	
2B AT (1206)	(J.2±0.2)	(1.0±0.2)	.022±.014 (0.55±0.35)	.031±.008 (0.8±0.2)		

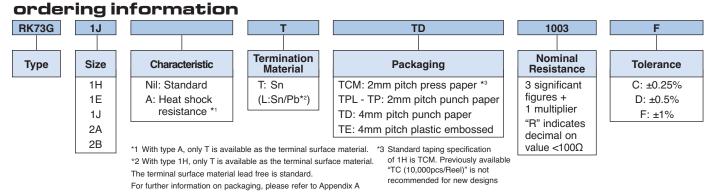
Derating Curve



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 Designation*	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (ppm/°C) Max.	Resistance Range			Absolute Maximum	Absolute Maximum
					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		125°C	±50		100Ω - 1ΜΩ**	100Ω - 1MΩ**	25V	50V
RK73G1E (0402)	.10W				4000 4140	400 400	100 1110	50V	100V
RK73G1J (0603)	.10W	70°C						75V	150V
RK73G2A (0805)	.125W			100Ω - 1ΜΩ	10Ω - 1ΜΩ	10Ω - 1MΩ ·	150V	200V	
RK73G2B (1206)	.25W							200V	400V

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

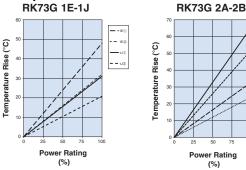
* Parentheses indicate EIA package size codes.

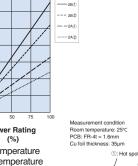
** RK73G1H available in E-24 decade values only

environmental applications

Temperature Rise RK73G 1E-1J

22

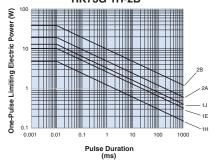




Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions.

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:

RK73G1HTTCM1802F RK73G1HTTCM2403D RK73G1HTTCM2700D RK73G1HTTCM6201F RK73G1HTTCM8201F RK73G1HTTCM8202F RK73G1HTTCM9101D RK73G1HTTCM9102D RK73G1HTTCM9103D RK73G1HTTCM6801F RK73G1HTTCM7501F RK73G1HTTCM4300D RK73G1HTTCM4303F RK73G1HTTCM5101D RK73G1HTTCM1101D RK73G1HTTCM1300D RK73G1HTTCM1303D RK73G1HTTCM1801D RK73G1HTTCM4702D RK73G1HTTCM5603D RK73G1HTTCM8203F RK73G1HTTCM1303F RK73G1HTTCM2701D RK73G1HTTCM3901F RK73G1HTTCM4702F RK73G1HTTCM6802F RK73G1HTTCM9100D RK73G1HTTCM1001F RK73G1HTTCM1202D RK73G1HTTCM1600D RK73G1HTTCM1601D RK73G1HTTCM2000F RK73G1HTTCM2401D RK73G1HTTCM2402D RK73G1HTTCM4301F RK73G1HTTCM5102D RK73G1HTTCM5103D RK73G1HTTCM1301D RK73G1HTTCM2003D RK73G1HTTCM3300D RK73G1HTTCM3303F RK73G1HTTCM5100F RK73G1HTTCM7501D RK73G1HTTCM1501D RK73G1HTTCM1601F RK73G1HTTCM2202D RK73G1HTTCM3002F RK73G1HTTCM3600D RK73G1HTTCM3603F RK73G1HTTCM5100D RK73G1HTTCM6800F RK73G1HTTCM8202D RK73G1HTTCM1004D RK73G1HTTCM1203F RK73G1HTTCM1600F RK73G1HTTCM2000D RK73G1HTTCM3001D RK73G1HTTCM3002D RK73G1HTTCM4303D RK73G1HTTCM5101F RK73G1HTTCM5103F RK73G1HTTCM6202D RK73G1HTTCM1201F RK73G1HTTCM1202F RK73G1HTTCM2001D RK73G1HTTCM3601F RK73G1HTTCM3602F RK73G1HTTCM6203D RK73G1HTTCM8200D RK73G1HTTCM1000F RK73G1HTTCM1500F RK73G1HTTCM2002D RK73G1HTTCM2202F RK73G1HTTCM2203F RK73G1HTTCM3003D RK73G1HTTCM4703F RK73G1HTTCM6801D RK73G1HTTCM6802D RK73G1HTTCM1302D RK73G1HTTCM1502D RK73G1HTTCM3600F RK73G1HTTCM4700D RK73G1HTTCM4701D RK73G1HTTCM6800D RK73G1HTTCM7502D RK73G1HTTCM1302F RK73G1HTTCM1500D RK73G1HTTCM2201F RK73G1HTTCM3902F RK73G1HTTCM4701F RK73G1HTTCM5602F RK73G1HTTCM6803D RK73G1HTTCM8203D RK73G1HTTCM1101F RK73G1HTTCM1102D RK73G1HTTCM1801F RK73G1HTTCM2200D RK73G1HTTCM2200F RK73G1HTTCM2701F RK73G1HTTCM3302D