



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

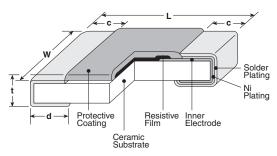




features

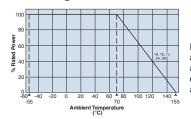
- High precision resistor with T.C.R. of ±50 ppm/°C and tolerance of ±0.25%, ±0.5% or ±1%
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Qualified

dimensions and construction

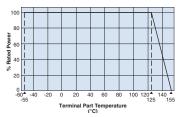


Туре	Dimensions inches (mm)						
(Inch Size Code)	L	W	С	d	t		
1H (0201)	.024±.001 (0.6±0.03)	.012±.001 (0.3±0.03)	.004±.002 (0.1±0.05)	.006±.002 (0.15±0.05)	.009±.001 (0.23±0.03)		
1E (0402)	.039 +.004 002 (1.0 +0.1 -0.05)	.02±.002 (0.5±0.05)	.008±.004 (0.2±0.1)	.01 +.002 004 (0.25 +0.05)	.014±.002 (0.35±0.05)		
1J (0603)	.063±.008 (1.6±0.2)	.031±.004 (0.8±0.1)	.012±.004 (0.3±0.1)	.012±.004 (0.3±0.1)	.018±.004 (0.45±0.1)		
2A (0805)	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.016±.008 (0.4±0.2)	.012 +.008 004 (0.3 +0.2)	.02±.004 (0.5±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)	.024±.004 (0.6±0.1)		

Derating Curve

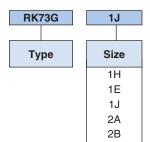


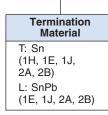
For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the above derating curve.



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.

ordering information





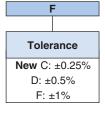
Packaging TC: 0201 only: 7" 2mm pitch pressed paper (TC: 10,000 pcs/reel, TCM: 15,000 pcs/reel) TPL: 0402 only: 2mm pitch punch paper

(TC: 10,000 pcs/reel, TCM: 15,000 pcs/reel TPL: 0402 only: 2mm pitch punch paper TP: 0402, 0603, 0805: 7" 2mm pitch punch paper

TD: 0603, 0805, 1206: 7" 4mm pitch punched paper

TE: 0805, 1206: 7" embossed plastic For further information on packaging, please refer to Appendix A

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





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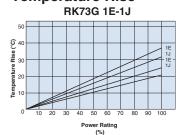
applications and ratings

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)	1/20W (.05W)	70°C	125°C	±50	_	100Ω - 1ΜΩ**	100Ω - 1ΜΩ**	25V	50V
RK73G1E (0402)	1/10W (.10W)				100Ω - 1ΜΩ	10Ω - 1ΜΩ	10Ω - 1ΜΩ	50V	100V
RK73G1J (0603)	1/10W (.10W)							75V	150V
RK73G2A (0805)	1/8W (.125W)							150V	200V
RK73G2B (1206)	1/4W (.25W)							200V	400V

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

environmental applications

Temperature Rise



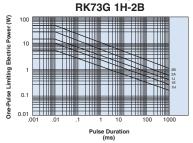
Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions.



PCB: FR-4t = 1.6mm Cu foil thickness: 35µm ①: Hot spot

Measurement condition

One-Pulse Limiting Electric Power



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.

Performance Characteristics

	Requirement Δ R ±(%+0.1Ω)			
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°C ± 5°C, 10 seconds ± 1 second	
Rapid Change of Temperature	±0.5%	±0.3%	-55°C (30 minutes), +125°C (30 minutes), 100 cycles	
Moisture Resistance	±2%: 1J, 2A, 2B ±3%: 1H, 1E	±0.6%: 1J, 2A, 2B; ±1%: 1H, 1E	40°C ± 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 ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle	
High Temperature Exposure	±1%	±0.6%	+155°C, 1000 hours	

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.

10/28/19

^{*} Parentheses indicate EIA package size codes.

^{**} RK73G1H available in E-24 decade values only

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

KOA Speer:

RK73G2BTTD7502	F RK73G1ETTP2000	F RK73G2BTTD1001	RK73G2BTTD15R0F	RK73G2BTTD1000F
RK73G2BTTD2491F	RK73G2BTTD1302F	RK73G2BTTD2492F	RK73G2BTTD4022F	RK73G2BTTD6042F
RK73G2BTTD1003F	RK73G2BTTD3573F	RK73G1JTTD3652F	RK73G2ALTD6810F	RK73G2ATTD2211D
RK73G2ATTD4992F	RK73G2ALTD1373F	RK73G1ETTP2742F	RK73G1JTTD4993F	K73G1JTTD4023D
RK73G1JTTD1502F	RK73G1JTTD3322F	RK73G1JTTD6812F	RK73G1JTTD8251F RI	K73G2ATTD1002D
RK73G2ATTD1211F	RK73G2ATTD4531F	RK73G2ATTD49R9D	RK73G2ALTD2873F	RK73G2ATTD1500D
RK73G2BLTD1181F	RK73G1ETTP1004F	RK73G1ETTP1742F	RK73G1JLTD1001F R	K73G1JLTD1003F
RK73G1JLTD2212D	RK73G1JTTD1000F	RK73G1JTTD1002D	RK73G1JTTD1002F R	K73G1JTTD1003F
RK73G1JTTD1004F	RK73G1JTTD1332D	RK73G1JTTD2001F	RK73G1JTTD2002F R	K73G1JTTD2201F
RK73G1JTTD2210F	RK73G1JTTD2493F	RK73G1JTTD33R0F	RK73G1JTTD4701F R	K73G1JTTD4991F
RK73G1JTTD4992F	RK73G1JTTD5831D	RK73G1JTTDD1002F	RK73G1JTTDD4021D	RK73G2ALTD1000F
RK73G2ALTD1001F	RK73G2ALTD1002F	RK73G2ALTD1004F	RK73G2ALTD10R0F	RK73G2ALTD1103D
RK73G2ALTD1211F	RK73G2ALTD1433F	RK73G2ALTD1742F	RK73G2ALTD1803D F	RK73G2ALTD1963F
RK73G2ALTD2001F	RK73G2ALTD2200F	RK73G2ALTD2202F	RK73G2ALTD2211F	RK73G2ALTD2213F
RK73G2ALTD2403D	RK73G2ALTD2432F	RK73G2ALTD3003D	RK73G2ALTD3920F	RK73G2ALTD4022F
RK73G2ALTD4123F	RK73G2ALTD4703F	RK73G2ALTD4751F	RK73G2ALTD4753F	RK73G2ALTD47R0F
RK73G2ALTD4991F	RK73G2ATTD1000F	RK73G2ATTD1001D	RK73G2ATTD1001F	RK73G2ATTD1002F
RK73G2ATTD1003F	RK73G2ATTD1004F	RK73G2ATTD1102D	RK73G2ATTD1210F	RK73G2ATTD1501F
RK73G2ATTD1650F	RK73G2ATTD2210F	RK73G2ATTD3301F	RK73G2ATTD33R0F	RK73G2ATTD3740F
RK73G2ATTD4701F	RK73G2ATTD5100F	RK73G2ATTD5110F	RK73G2ATTD9091F	RK73G2ATTDD1004F