



flat chip resistors for high voltage





features

- Superior to RK73 series in maximum working voltage
- 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.

dimensions and construction



Туре	Dimensions inches (<i>mm</i>)					
(Inch Size Code)	L	W	с	d	t	
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 -0.1)	.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 -0.1)	.024±.004 (0.6±0.1)	
2H (2010)	.197±.008 (5.0±0.2)	.098±.008 (2.5±0.2)	.02±.012 (0.5±0.3)	.016 +.008 004 (0.4 +0.2 -0.1)	.024±.004 (0.6±0.1)	
3A (2512)	.248±.008 (6.3±0.2)	.122±.008 (3.1±0.2)	.02±.012 (0.5±0.3)	.016 + .008004 (0.4 + 0.2) + 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.

ordering information



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. 11/06/19





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applications and ratings

Part Designation	Power Rating @ 70°C	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (ppm/°C) Max.	E-24/E-96 (D±0.5%)	Resistance E-24/E-96 (F±1%)	e Range (Ω) E-24 (G±2%)	E-24 (J±5%)	Absolute Maximum Working Voltage	Maximum Overload Voltage (D.C.)*	Operating Temp. Range		
1J	0.1W	70°C	80°C	±100**	_	10k - 10M	10k - 10M	10k - 10M	350V	500V*			
2A	0.25\//	70°C	100°C	±100	100k - 1M	100k - 10M	100k - 10M	100k - 10M	400V	800V*	-55°C		
	0.2500	700		±200	_			11M - 51M	400 V				
28	0.25\	70°C	100%0	±100	100k - 1M	100k - 10M	100k - 10M	100k - 10M	8001/	1000\/*			
20	0.2000		70 0		±200	_	—	—	11M - 51M	0000	10000	to	
	l 0.5W 70°C 90°C					±100	100k - 1M	100k - 10M	100k - 10M	100k - 10M			+155°C
2H		90°C	±200	_	10.2M - 51M	11M - 51M	11M - 51M	2000V (D.C.)	3000V*				
	±3	±300		51.1M - 100M	56M - 100M	56M - 100M	1 (2.0.)						
3A 1W	1\\/	1W 70°C	105°C	±100	43k - 1M	43k - 10M	43k - 10M	43k - 10M	3000V (D.C.)	4000V*	1		
				±200	—	10.2M - 20M	11M - 20M	11M - 51M					

* Max. overload voltage is specified by D.C. voltage

** Cold T.C.R. (-55°C ~ +25°C) of 1.02M Ω ~ 10M Ω is +200x10⁻⁶/K

If any questions should arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating curves on the terminal part temperature" in the beginning of the catalog.

Rated voltage = $\sqrt{Power rating x resistance value}$ or max. working voltage, whichever is lower

environmental applications

Rico

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.





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(%)

One-Pulse Limiting Electric Power



Pulse Duration

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

Demonster	Requirement 2	$\Delta \mathbf{R} \pm (\% + 0.1 \Omega)$	To a Marka a		
Parameter	Limit	i ypicai	Test Method		
Resistance	Within regulated tolerance	_	25°C		
T.C.R.	Within specified T.C.R.	_	+25°C/-55°C and +25°C/+125°C		
Overload (Short time)	±2%	±0.5%	Rated Voltage (D.C.) x 2.5 for 5 seconds		
Resistance to Solder Heat	±1%	±0.5%	$260^{\circ}C \pm 5^{\circ}C$, 10 seconds ± 1 second		
Rapid Change of Temperature	±0.5%: (10kΩ≤R≤10MΩ) ±1%: (10MΩ≤R≤100MΩ)	±0.3%: (10kΩ≤R≤10MΩ) ±0.5%: (10MΩ≤R≤100MΩ)	-55°C (30 minutes), +125°C (30 minutes), 100 cycles		
Moisture Resistance	±2%	±0.75%	40°C ± 2°C, 90%-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle		
Endurance at 70°C	±2%	±0.75%	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle		
High Temperature Exposure	±2%	±0.3%	+155°C, 1000 hours		
Additional environmental applications can also be found at www.koaspeer.com					

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