



flat chip resistors for high voltage

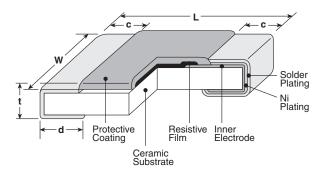




features

- Superior to RK73 series in maximum working voltage
- Marking: 1J: No marking, black protective coating 2A ~ 3A: White three-digit marking on black protective coating
- 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

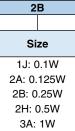


Туре	Dimensions inches (mm)							
(Inch Size Code)	L	W	С	d	t			
1J (0603)	.063±.008 (1.6±0.2)	.031±.004 (0.8±0.1)	.012±.004 (0.3±0.1)	.012±.004 (0.3±0.1)	.018±.004 (0.45±0.1)			
2A (0805)	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.016±.008 (0.4±0.2)	.012 +.008 004 (0.3 +0.2)	.02±.004 (0.5±0.1)			
2B (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)			
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)	.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 +.008 004 (0.4 +0.2)	.024±.004 (0.6±0.1)			

ordering information









	-
mination //aterial	Packaging
T: Sn	TD: 0603, 0805, 1206: 7" 4mm pitch punched paper
	TDD: 0603, 0805, 1206: 10" paper tape
	TE: 2010 & 2512: 7" embossed plastic

7" 4mm pitch punched paper					
7 Hillin piteri parierica paper					
TDD: 0603, 0805, 1206:					
10" paper tape					
TE: 2010 & 2512:					
7" embossed plastic					
TED: 2010 & 2512:					
10" embossed plastic					
For further information on packaging, please refer to Appendix A					

Nominal Resistance					
±0.5%, ±1%: 3 significant figures + 1 multiplier					
±2%, ±5%: 2 significant figures + 1 multiplier					

 esistance Tolerance
D: ±0.5%
F: ±1%
G: ±2%
J: ±5%



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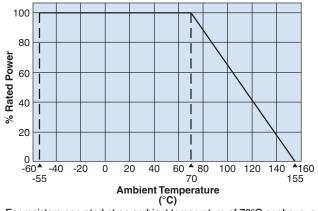
applications and ratings

Part Designation	Power Rating @ 70°C	T.C.R. (ppm/°C) Max.	E-24 (D±0.5%)	Resistan E-24 (F±1%)	ce Range (Ω) E-24 (G±2%)) E-24 (J±5%)	Absolute Maximum Working Voltage	Maximum Overload Voltage (D.C.)*	Operating Temperature Range
1J	0.1W	±100**	_	10k - 10M	10k - 10M	10k - 10M	350V	500V*	
24	2A 0.125W (0.25W)***	±100	100k - 1M	100k - 10M	100k - 10M	100k - 10M	400V	800V*	5500
20		±200	_	_	_	11M - 51M			-55°C - to +155°C
ap.	2B 0.25W	±100	100k - 1M	100k - 10M	100k - 10M	100k - 10M	500V	1000V*	
26		±200	_	_	_	11M - 51M			
2H 0.5W	±100	100k - 1M	100k - 10M	100k - 10M	100k - 10M	00001//*D C \ 00001/*	1		
	0.500	±200	_	_	_	11M - 51M	2000V(*D.C.)	3000V*	
3A	1W	±100	43k - 1M	43k - 10M	43k - 10M	43k - 10M	3000V(*D.C.) 40	4000\/*	4000)/*
		±200	_	11M - 20M	11M - 20M	11M - 51M		4000V*	

^{*} AC Voltage Reference: When using for A.C. Voltage, use the peak A.C. Voltage, which should not exceed the Maximum DC Overload Voltage (Max. DC Voltage/ √2)

environmental applications

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.

Performance Characteristics

	Requirement Δ R ±(%+0.1Ω)		
Parameter	Limit	Typical	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°C ± 5°C, 10 seconds ± 1 second
Rapid Change of Temperature	±0.5%: (10ΚΩ≤R≤10ΜΩ) ±1%: (11ΜΩ≤R≤51ΜΩ)	±0.3%: (10ΚΩ≤R≤10ΜΩ) ±0.5%: (11ΜΩ≤R≤51ΜΩ)	-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

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

1/05/13

^{**} Cold T.C.R. of 1.1M Ω ~ 10M Ω is +200x10-6/K

^{***} Contact factory prior to use