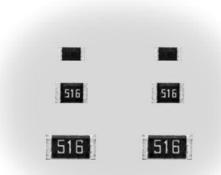




flat chip resistors for high voltage (automotive)

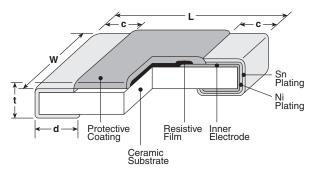


features



- Superior to RK73 series in maximum working voltage
- Suitable for flow and reflow solderings
- Products meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- Suitable for high reliable applications like automotives
- AEC-Q200 qualified

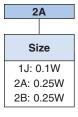
dimensions and construction



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		.024±.004 (0.6±0.1)				

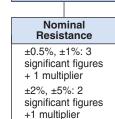
ordering information



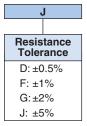




טו						
Packaging						
TD: 7" 4mm pitch punched paper						
TE: 7" 4mm pitch embossed plastic						
For further information on packaging, please refer to Appendix A						
P						



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flat chip resistors for high voltage (automotive)

applications and ratings

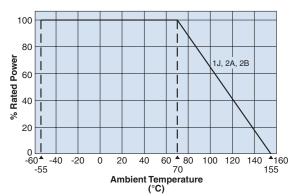
Part Designation	Power Rating @ 70°C	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (ppm/°C) Max.	E-24/E-96 (D±0.5%)	Resistance E-24/E-96 (F±1%)	Range (Ω) E-24 (G±2%)	E-24 (J±5%)	Maximum Working Voltage	Maximum Overload Voltage (D.C.)*	Operating Temperature Range
HV73V1J	0.1W	70°C	80°C	±100**	_	10k - 10M	10k - 10M	10k - 10M	350V	500V*	
HV73V2A	0.25W	70°C	100°C	±100 ±200	100k - 1M —	100k - 10M —	100k - 10M —	100k - 10M 11M - 51M	400V	800V*	-55°C to +155°C
HV73V2B	0.25W	70°C	100°C	±100 ±200	100k - 1M —	100k - 10M —	100k - 10M —	100k - 10M 11M - 51M	800V	1000V*	

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

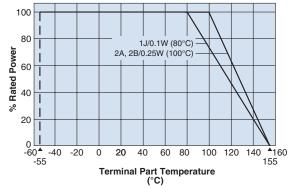
If any questions should arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating curves on the terminal part temperature" in the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

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.



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.

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%: (10kΩ≤R≤10MΩ) ±1%: (11MΩ≤R≤51MΩ)	±0.3%: (10kΩ≤R≤10MΩ) ±0.5%: (11MΩ≤R≤51MΩ)			
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.

11/06/17

^{*} Maximum Overload Voltage is specified by D.C. voltage ** Cold T.C.R. (-55°C ~ +25°C) of 1.02MΩ ~ 10MΩ is +200x10^e/K

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