



wide terminal type flat chip resistors (low resistance)

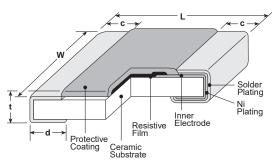




features

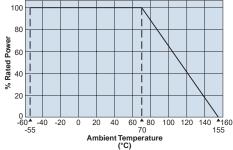
- Wide-side termination (reverse-geometry) type flat chip resistor
- High reliability and performance with T.C.R. ±100 x 10⁻⁶/K, resistance tolerance ±0.5%
- Suitable for both reflow and flow solderings
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Tested

dimensions and construction

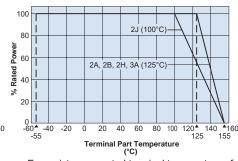


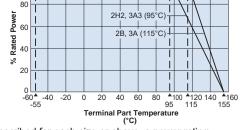
Type	Dimensions inches (mm)						
(Inch Size Code)	de) L W		С	d	t		
2A (0508)	.049±.006 (1.25±0.15)	.079±.006 (2.0±0.15)	.012±.008 (0.3±0.2)	.014±.008 (0.35±0.2)	.022±.004 (0.55±0.1)		
2B (0612)	.063±.006 (1.6±0.15)	.126±.008 (3.2±0.2)	.012±.008 (0.3±0.2)	.018±.006 (0.45±0.15)			
2H (1020)	.098±.006 (2.5±0.15)	.197±.006 (5.0±0.15)	.016±.008 (0.4±0.2)		.024±.004 (0.6±0.1)		
2J (1218)	.122±.006 (3.1±0.15)	.181±.006 (4.6±0.15)	.016±.008 (0.4±0.2)	.030±.006 (0.75±0.15)			
3A (1225)	.122±.006 (3.1±0.15)	.252±.006 (6.3±0.15)	.018±.008 (0.45±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.





WK73S2B (1W), WK73S3A (2W)

For resistors operated terminal temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve above.

100

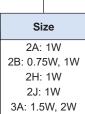
Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog before use.

If you want to use at rated power (*1), use derating curves based on the terminal part temperature on the right side graph.

ordering information

2A







Packaging						
TD: 0508, 061	2: 7" 4mm pitch					

TE: 1020, 1218, 1225: 7" embossed plastic For further information on

packaging, please refer to Appendix A

Nominal Resistance

33L0

±1%: 3 significant figures + 1 multiplier "R" indicates decimal on value <100 Ω

±5%: 2 significant figures + 1 multiplier "R" indicates decimal on values <10 Ω

Ex: $33m\Omega$, 1% = 33L0

All values less than 0.1Ω ($100m\Omega$) are expressed in $m\Omega$ with "L" as decimal.

Resistance Tolerance				
D: ±0.5%				
F: ±1%				
J: ±5%				

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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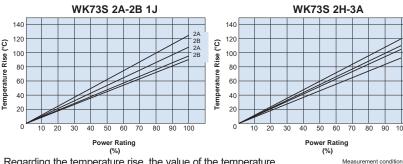
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applications and ratings

Part Designation	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (X 10°/K)	D±0.5% E-24/E-96	Resistance Range (Ω) F±1% E-24/E-96	J±5% E-24	Operating Temp. Range
	1.0W¹	70°C	125°C	±100	_	1 - 9.76	1 - 9.1	-55°C to +155°C
WK73S2A				0~+200	_	30m - 976m	30m - 910m	
				0~+300	_	20m - 29.4m	20m - 27m	
			125°C	±100	430m - 9.76	430m - 9.76	430m - 9.1	
	0.75W	70°C		±200	_	30m - 422m	30m - 390m	
WK73S2B				±800	_	_	10m - 27m	
WK/332B				±100	430m - 9.76	430m - 9.76	430m - 9.1	
	1.0W¹	70°C	115°C	±200	_	30m - 422m	30m - 390m	
				±800	_	_	10m - 27m	
	1.0W 70			±100	_	220m - 9.76	220m - 9.1	
WK73S2H		70°C	125°C	±200	_	27m - 215m	27m - 200m	
				±800	_	_	10m - 24m	
	1.0W	1.0W 70°C	100°C	±100	_	240m - 9.76	240m - 9.1	
WK73S2J				±200	_	33m - 237m	33m - 220m	
				±800	_	_	10m - 30m	
		4 FM 70°C	125°C	±100	_	360m - 9.76	360m - 9.1	
WK73S3A	1.5W 70°C			±200	_	33m - 357m	33m - 330m	
		70 C	125 C	±300	_	22m - 32.4m	22m - 30m	
			±800	_	_	10m - 20m		
	2.0W¹ 70			±100	_	360m - 9.76	360m - 9.1	
		70°C	115°C	±200	_	33m - 357m	33m - 330m	
				±300	_	22m - 32.4m	22m - 30m	
				±800	_	_	10m - 20m	

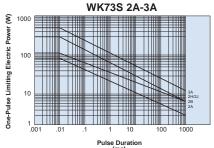
Rated voltage = $\sqrt{\text{Power rating x resistance value}}$

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.

One-Pulse Limiting Electric Power



Please ask us about the resistance characteristic of continuous applied pulse.

environmental applications

Performance Characteristics

	Requirement Δ	R ±(%+0.005Ω)		
Parameter	Limit	Typical	Test Method	
Resistance	Within specified tolerance	_	25°C	
T.C.R.	Within specified T.C.R.	_	+25°C/-55°C and +25°C/+125°C	
Overload (Short time)	±2%	±0.2%	Rated voltage x2.5 for 5 seconds (WK73S2A, WK73S2B (1W), WK73S3A (2W): Rated voltage x2.0 for 5 seconds)	
Resistance to Solder Heat	±1%	±0.2%	260°C ± 5°C, 10 seconds ± 1 second	
Bending Test	±1%	±0.1%	Holding point 90mm, Bending 1 time, Bending 5mm	
Rapid Change of Temperature	±2%	±1%	-55°C (30 minutes), +125°C (30 minutes), 1000 cycles	
Moisture Resistance	±2%	±0.2%	40°C ± 2°C, 90%-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle	
Endurance at 70°C	±2%	±0.2%	70°C ± 2°C or rated terminal part temperature ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle	
High Temperature Exposure	±2%: WK73S (±5%) ±1%: all others	±0.5%: WK73S (±5%) ±0.2%: all others	+155°C, 1000 hours	

PCB: FR-4t = 1.6mm

2: Termina

Additional environmental applications can also be found at www.koaspeer.com

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If you want to use at rated power use derating curves based on the terminal part temperature on the right side graph located on previous page. If any questions arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature", please give priority to the "Rated Terminal Part Temperature." For more details refer to the "Introduction of the derating curves based on the terminal part temperature" in the beginning of the catalog