



wide terminal type flat chip resistors (low resistance)

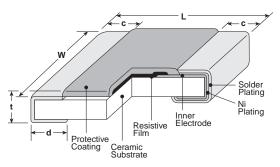




features

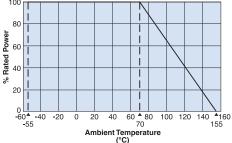
- Wide-side termination (reverse-geometry) type flat chip resistor
- High reliability and performance with T.C.R. ±100 x 10⁻⁶/K, resistance tolerance ±0.5%
- Suitable for both reflow and flow solderings
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended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

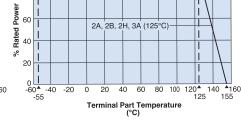
dimensions and construction

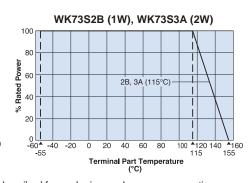


Type	Resistance	Dimensions inches (mm)				
(Inch Size Code)	Range (Ω)	L±0.15	W	С	d	t±0.1
2A (0508)	20m~61.9m	.049±.006 (1.25±0.15)	.079±.006 (2.0±0.15)	.016±.006 (0.4±0.15) .012±.008	.014±.008 (0.35±0.2)	.022±.004 (0.55±0.1)
2B (0542)	10m~9.76m	.063±.006 (1.6±0.15)	.126±.008 (3.2±0.2)	(0.3±0.2) .012±.008 (0.3±0.2)	.018±.006 (0.45±0.15)	
(0612) 2H (1020)	10m~9.76m	.098±.006 (2.5±0.15)	.197±.006 (5.0±0.15)	.016±.008 (0.4±0.2)	.030±.006	.024±.004 (0.6±0.1)
3A (1225)	10m~9.76m	.122±.006 (3.1±0.15)	.252±.006 (6.3±0.15)	.018±.008 (0.45±0.2)	(0.75±0.15)	

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

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.

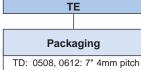
ordering information







80



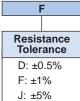
punched paper TE: 1020, 1225: 7" embossed

For further information on packaging, please refer to Appendix A

33L0 **Nominal** Resistance

±1%: 3 significant figures + 1 multiplier "R" indicates decimal on

on value <100Ω	
$\pm 5\%$: 2 significant figures + 1 multiplier "R" indicates decimal on values <10 $\!\Omega$	
All values less than 0.1 Ω (100m Ω) are expressed in m Ω with "L" as decimal. Ex: 33m Ω , 1% = 33L0	



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

11/10/24





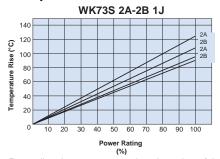
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applications and ratings

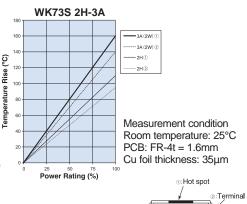
Part Designation	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (X 10°/K)	D±0.5% E-24/E-96	Resistance Range (Ω) F±1% E-24/E-96	J±5% E-24	Operating Temp. Range
		70°C	C 125°C	±100		1 - 9.76	1 - 9.1	-55°C to
WK73S2A	1.0W1			0~+200	_	30m - 976m	30m - 910m	
(0508)				0~+300	_	20m - 29.4m	20m - 27m	
		70°C	125°C	±100	430m - 9.76	430m - 9.76	430m - 9.1	
	0.75W			±200	_	30m - 422m	30m - 390m	
WK73S2B				±800	_	_	10m - 27m	
(0612)	1.0W1	70°C	115°C	±100	430m - 9.76	430m - 9.76	430m - 9.1	
				±200	_	30m - 422m	30m - 390m	
				±800	_	_	10m - 27m	
W///700011	1.0W	70°C	125°C	±100	_	220m - 9.76	220m - 9.1	
WK73S2H (1020) 1.0V				±200	_	27m - 215m	27m - 200m	
				±800	_	_	10m - 24m	+155°C
			125°C	±100	_	360m - 9.76	360m - 9.1	
	4.514	7000		±200	_	33m - 357m	33m - 330m	
WK73S3A	1.5W 70°C	70°C		±300	_	22m - 32.4m	22m - 30m	
				±800	_	_	10m - 20m	
(1225)	2.0W¹	70°C	115°C	±100	_	360m - 9.76	360m - 9.1	
				±200	_	33m - 357m	33m - 330m	
				±300	_	22m - 32.4m	22m - 30m	
				±800	_	_	10m - 20m	

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

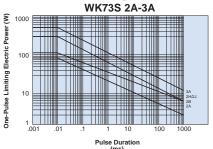
Temperature Rise



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	

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

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¹ 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