

WK73S

wide terminal type flat chip resistors

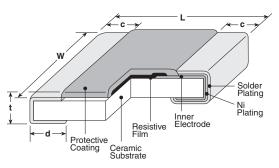




features

- 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%
- 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

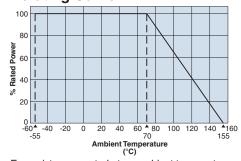


Type	Dimensions inches (mm)							
(Inch Size Code)	L	W	С	d	t			
2A (0508)			.012±.008 (0.3±0.2)	.014±.008 (0.35±0.2)	.022±.004 (0.55±0.1)			
2B (0612)	.063±.006 (1.6±0.15)	.126±.008 (3.2±0.2)	.012±.008 (0.3±0.2)	.018±.006 (0.45±0.15)				
2H (1020)	.098±.006 (2.5±0.15)	.197±.006 (5.0±0.15)	.016±.008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

100

60

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)

2H2, 3A3 (95°C

2B. 3A (115°C)

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







Pack	aging
TD: 0508, 061	2: 7" 4mm pitch
TE: 1020, 121	•

7" embossed plastic For further information on packaging, please refer to Appendix A

Nominal Resistance

33L0

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

 $\pm 5\%$: 2 significant figures + 1 multiplier "R" indicates decimal on values <10 $\!\Omega$

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

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

F	
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.





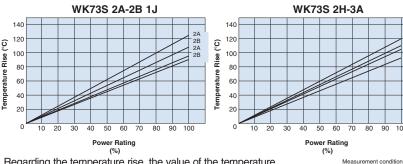
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applications and ratings

Part Designation	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (X 10°/K)	D±0.5% E-24/E-96	esistance Range (£ F±1% E-24/E-96	Ω) J±5% E-24	Maximum Working Voltage	Maximum Overload Voltage	Operating Temp. Range
	1.0W¹	70°C	125°C	±100	_	1 - 9.76	1 - 9.1	200V	400V	-55°C to +155°C
WK73S2A				0~+200	_	30m - 976m	30m - 910m			
				0~+300	_	20m - 29.4m	20m - 27m			
	0.75W	70°C	125°C	±800	_	_	10m - 27m	200V	400V	
				±200	_	30m - 422m	30m - 390m			
WK73S2B				±100	430m - 9.76	430m - 9.76	430m - 9.1			
WK7332D		70°C	115°C	±800	_		10m - 27m		400 V	
	1.0W¹			±200	_	30m - 422m	30m - 390m			
				±100	430m - 9.76	430m - 9.76	430m - 9.1			
	1.0W	70°C	125°C	±800	_	_	10m - 24m	200V	400V	
WK73S2H				±200	_	27m - 215m	27m - 200m			
				±100	_	220m - 9.76	220m - 9.1			
	1.0W	70°C	100°C	±800	_	_	10m - 30m	200V	400V	
WK73S2J				±200	_	33m - 237m	33m - 220m			
				±100	_	240m - 9.76	240m - 9.1			
	1.5W	70°C	125°C	±800	_	_	10m - 20m	200V		
				±300	_	22m - 32.4m	22m - 30m			
				±200	_	33m - 357m	33m - 330m		400V	
WK73S3A				±100	_	360m - 9.76	360m - 9.1			
WK/353A	2.0W¹	70°C	115°C -	±800	_	_	10m - 20m		4000	
				±300	_	22m - 32.4m	22m - 30m			
				±200	_	33m - 357m	33m - 330m			
				±100	_	360m - 9.76	360m - 9.1			

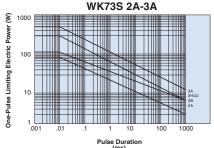
Rated voltage = $\sqrt{\text{Power rating x resistance value}}$

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



The maximum applicable voltage is equal to the max. overload voltage. Please contact factory for resistance characteristics 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%	±2% ±0.2% WK73S2A (1W), WK73S2B (1W), WK73S3A (2W): Rated voltage x2.0 for 5 seconds. WK7S2B, S2H, S2J, S3A: Rated voltage x2.5 for 3 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, 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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12/10/20

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

Mouser Electronics

Authorized Distributor

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KOA Speer:

WK73S2JTTER560F WK73S2JTTER390F WK73S3ATTER150F WK73S2BTTD10LJ WK73S2BTTD11LJ WK73S2BTTD12LJ WK73S2BTTD13LJ WK73S2BTTD15LJ WK73S2BTTD16LJ WK73S2BTTD18LJ WK73S2BTTD1R00F WK73S2BTTD1R0J WK73S2BTTD1R10F WK73S2BTTD1R1J WK73S2BTTD1R20F WK73S2BTTD1R2J WK73S2BTTD1R30F WK73S2BTTD1R3J WK73S2BTTD1R50F WK73S2BTTD1R5J WK73S2BTTD1R60F WK73S2BTTD1R6J WK73S2BTTD1R80F WK73S2BTTD1R8J WK73S2BTTD20LJ WK73S2BTTD22LJ WK73S2BTTD24LJ WK73S2BTTD27LJ WK73S2BTTD2R00F WK73S2BTTD2R0J WK73S2BTTD2R20F WK73S2BTTD2R2J WK73S2BTTD2R40F WK73S2BTTD2R4J WK73S2BTTD2R70F WK73S2BTTD2R7J WK73S2BTTD30L0F WK73S2BTTD30LJ WK73S2BTTD33L0F WK73S2BTTD33LJ WK73S2BTTD36L0F WK73S2BTTD36LJ WK73S2BTTD39L0F WK73S2BTTD39LJ WK73S2BTTD3R00F WK73S2BTTD3R0J WK73S2BTTD3R30F WK73S2BTTD3R3J WK73S2BTTD3R60F WK73S2BTTD3R6J WK73S2BTTD3R90F WK73S2BTTD3R9J WK73S2BTTD43L0F WK73S2BTTD43LJ WK73S2BTTD47L0F WK73S2BTTD47LJ WK73S2BTTD4R30F WK73S2BTTD4R3J WK73S2BTTD4R70F WK73S2BTTD4R7J WK73S2BTTD51L0F WK73S2BTTD51LJ WK73S2BTTD56L0F WK73S2BTTD56LJ WK73S2BTTD5R10F WK73S2BTTD5R1J WK73S2BTTD5R60F WK73S2BTTD5R6J WK73S2BTTD62L0F WK73S2BTTD62LJ WK73S2BTTD68L0F WK73S2BTTD68LJ WK73S2BTTD6R20F WK73S2BTTD6R2J WK73S2BTTD6R80F WK73S2BTTD6R8J WK73S2BTTD75L0F WK73S2BTTD75LJ WK73S2BTTD7R50F WK73S2BTTD7R5J WK73S2BTTD82L0F WK73S2BTTD82LJ WK73S2BTTD8R20F WK73S2BTTD8R2J WK73S2BTTD91L0F WK73S2BTTD91LJ WK73S2BTTD9R10F WK73S2BTTD9R1J WK73S2BTTDR100F WK73S2BTTDR10J WK73S2BTTDR110F WK73S2BTTDR11J WK73S2BTTDR120F WK73S2BTTDR12J WK73S2BTTDR130F WK73S2BTTDR13J WK73S2BTTDR150F WK73S2BTTDR15J WK73S2BTTDR160F WK73S2BTTDR16J