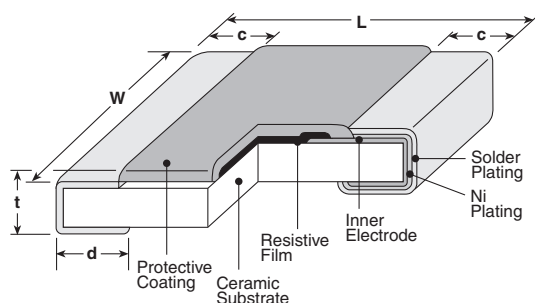


features

- Flat chip resistors of wide terminal type
- High reliability and performance with T.C.R. $\pm 100 \times 10^{-6}/K$, resistance tolerance $\pm 1\%$
- Marking: Black protective coat
- Products with lead-free terminations meet EU RoHS requirements. Pb located in glass material, electrode and resistor element is exempt per Annex 1, exemption 5 of EU directive 2005/95/EC

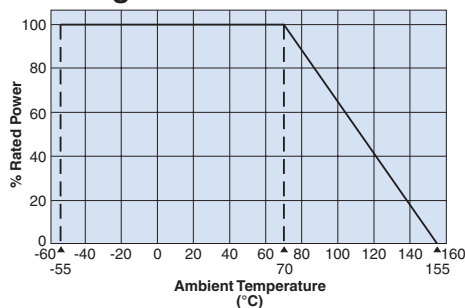


dimensions and construction



Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
2B (0612)	.063±.006 (1.6±0.15)	.126±.006 (3.2±0.15)	.012±.008 (0.3±0.2)	.018±.006 (0.45±0.15)	.024±.004 (0.6±0.1)
2H (1020)	.098±.006 (2.5±0.15)	.197±.006 (5.0±0.15)	.016±.008 (0.4±0.2)		
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 (6.4±0.15)	.018±.008 (0.45±0.2)		

Derating Curve



ordering information

New Part #	WK73S	2J	T	TE	33L0	F
Type	WK73S WK73R	Size 2B: 0.75W 2H: 1W 2J: 1W 3A: 1.5W	Termination Material T: Sn	Packaging TD: 0612: 7" 2mm pitch punched paper TDD: 0612 10" paper tape TE: 1020, 1218, 1225: 7" punched plastic TED: 1020, 1218, 1225: 10" punched plastic For further information on packaging, please refer to Appendix A	Nominal Resistance $\pm 1\%$: 3 significant figures + 1 multiplier "R" indicates decimal on value $<100\Omega$ $\pm 5\%$: 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	Resistance Tolerance F: $\pm 1\%$ J: $\pm 5\%$

applications and ratings

Part Designation	Power Rating @ 70°C	T.C.R. (ppm/°C) Max.	Resistance Range		Maximum Working Voltage	Maximum Overload Voltage	Operating Temperature Range
			E-24 (F±1%)	E-24 (J±5%)			
WK73S2B	0.75W	±800	—	10m - 27m	200V	400V	-55°C to +155°C
		±200	30m - 390m	30m - 390m			
		±100	430m - 9.1	430m - 9.1			
WK73R2B		±100	10 - 3.3k	10 - 3.3k			
WK73R2B*		±100	3.6k - 1M	3.6k - 1M			
WK73S2H	1.0W	±800	—	10m - 24m	200V	400V	
		±200	27m - 200m	27m - 200m			
		±100	220m - 9.1	220m - 9.1			
WK73R2H	1.0W	±100	10 - 430k	10 - 430k	200V	400V	
		±200	470k - 1M	470k - 1M			
WK73S2J	1.0W	±800	—	10m - 30m	200V	400V	
		±200	33m - 220m	33m - 220m			
		±100	240m - 9.1	240m - 9.1			
WK73R2J	1.0W	±100	10 - 510k	10 - 510k	200V	400V	
		±200	560k - 1M	560k - 1M			
WK73S3A	1.5W	±800	—	10m - 20m	200V	400V	
		±300	22m - 30m	22m - 30m			
		±200	33m - 330m	33m - 330m			
		±100	360m - 9.1	360m - 9.1			
WK73R3A	1.5W	±100	10 - 330k	10 - 330k	200V	400V	
		+200	360k - 1M	360k - 1M			

* Under Development.

environmental applications

Performance Characteristics

Parameter	Requirement ΔR		Test Method
	Limit	Typical	
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 x 2.5 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	±0.5%	±0.1%	-55°C (30 minutes), +155°C (30 minutes), 5 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	±1%	±0.2%	+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.

12/16/08