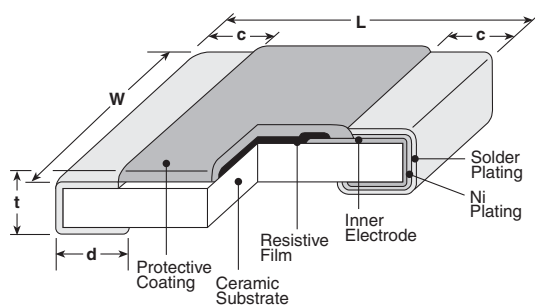


features

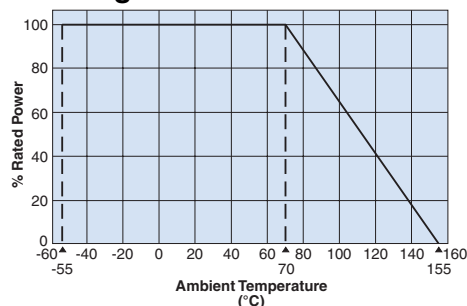
- Flat chip resistors of wide terminal type
- High reliability and performance with T.C.R. $\pm 100 \times 10^{-6}/K$, resistance tolerance $\pm 1\%$
- Marking: Black protective coat
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Qualified: 0612(2B), 1020(2H), 1218(2J), 1225(3A)

dimensions and construction

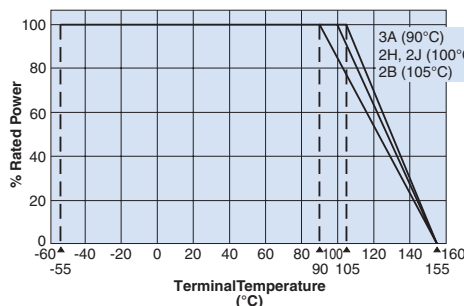


Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
2B (0612)	.063±.006 (1.6±0.15)	.126±.006 (3.2±0.2)	.012±.008 (0.3±0.2)	.018±.006 (0.45±0.15)	.024±.004 (0.6±0.1)
2H (1020)	.098±.006 (2.5±0.15)	.197±.006 (5.0±0.15)	.016±.008 (0.4±0.2)		
2J (1218)	.122±.006 (3.1±0.15)	.181±.006 (4.6±0.15)	.016±.008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



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.

ordering information

New Part #	WK73S	2J	T	TE	33L0	F
Type	WK73S WK73R	Size	Termination Material	Packaging	Nominal Resistance	Resistance Tolerance
		2B: 0.75W 2H: 1W 2J: 1W 3A: 1.5W	T: Sn	TD: 0612: 7" 4mm pitch punched paper TE: 1020, 1218, 1225: 7" embossed plastic TED: 1020, 1218, 1225: 10" embossed plastic For further information on packaging, please refer to Appendix A	±1%: 3 significant figures + 1 multiplier "R" indicates decimal on value <100Ω ±5%: 2 significant figures + 1 multiplier "R" indicates decimal on values <10Ω All values less than 0.1Ω (100mΩ) are expressed in mΩ with "L" as decimal. Ex: 33mΩ, 1% = 33L0	F: ±1% J: ±5%

applications and ratings

Part Designation	Power Rating @ 70°C	T.C.R. (ppm/°C) Max.	Resistance Range (Ω)		Maximum Working Voltage	Maximum Overload Voltage	Operating Temperature Range
			E-24 (F±1%)	E-24 (J±5%)			
NEW 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	0.75W	±100	10 - 1M	10 - 1M	200V	400V	
		±800	—	10m - 24m			
		±200	27m - 200m	27m - 200m			
WK73S2H	1.0W	±100	220m - 9.1	220m - 9.1	200V	400V	
		±200	10 - 430k	10 - 430k			
WK73R2H	1.0W	±200	470k - 1M	470k - 1M	200V	400V	
		±800	—	10m - 30m			
WK73S2J	1.0W	±200	33m - 220m	33m - 220m	200V	400V	
		±100	240m - 9.1	240m - 9.1			
		±100	10 - 510k	10 - 510k			
WK73R2J	1.0W	±200	560k - 1M	560k - 1M	200V	400V	
		±800	—	10m - 20m			
WK73S3A	1.5W	±300	22m - 30m	22m - 30m	200V	400V	
		±200	33m - 330m	33m - 330m			
		±100	360m - 9.1	360m - 9.1			
WK73R3A	1.5W (2.0W)*	±100	10 - 330k	10 - 330k	200V	400V	
		±200	360k - 1M	360k - 1M			

* Please contact factory prior to use

environmental applications

Performance Characteristics

Parameter	Requirement $\Delta R \pm(\%+0.005\Omega)$		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	±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

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

12/17/12