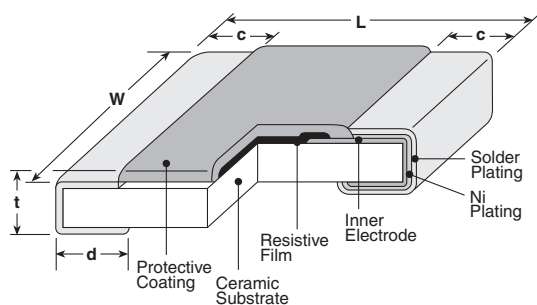


## features

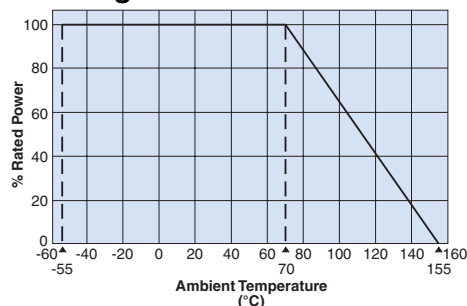
- Flat chip resistors of wide terminal type
- High reliability and performance with T.C.R.  $\pm 100 \times 10^{-6}/K$ , resistance tolerance  $\pm 1\%$
- Marking: Black protective coat
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained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

## dimensions and construction

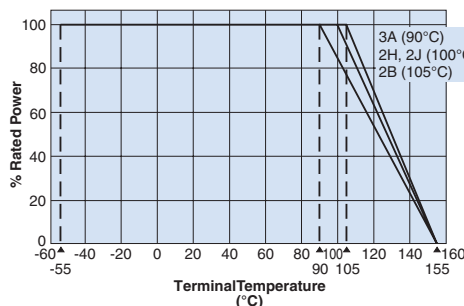


Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
<b>2B (0612)</b>	.063±.006 (1.6±0.15)	.126±.006 (3.2±0.2)	.012±.008 (0.3±0.2)	.018±.006 (0.45±0.15)	.024±.004 (0.6±0.1)
<b>2H (1020)</b>	.098±.006 (2.5±0.15)	.197±.006 (5.0±0.15)	.016±.008 (0.4±0.2)		
<b>2J (1218)</b>	.122±.006 (3.1±0.15)	.181±.006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

NEW	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			
NEW	WK73R2B	0.75W	±100	10 - 1M	10 - 1M	200V	400V	
			±800	—	10m - 24m			
			±200	27m - 200m	27m - 200m			
NEW	WK73S2H	1.0W	±100	220m - 9.1	220m - 9.1	200V	400V	
			±800	—	10m - 24m			
			±200	27m - 200m	27m - 200m			
NEW	WK73R2H	1.0W	±100	10 - 430k	10 - 430k	200V	400V	
			±200	470k - 1M	470k - 1M			
			±800	—	10m - 30m			
NEW	WK73S2J	1.0W	±200	33m - 220m	33m - 220m	200V	400V	
			±100	240m - 9.1	240m - 9.1			
			±800	—	10m - 20m			
NEW	WK73R2J	1.0W	±100	10 - 510k	10 - 510k	200V	400V	
			±200	560k - 1M	560k - 1M			
			±800	—	10m - 20m			
NEW	WK73S3A	1.5W	±300	22m - 30m	22m - 30m	200V	400V	
			±200	33m - 330m	33m - 330m			
			±100	360m - 9.1	360m - 9.1			
NEW	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](http://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