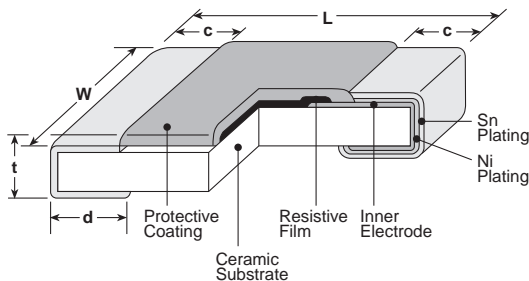


**features**

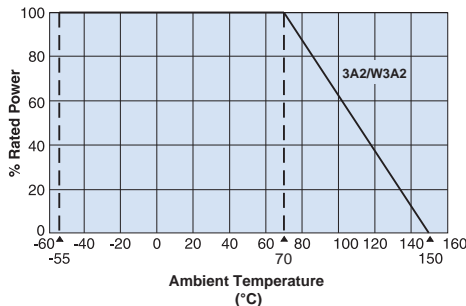
- Current detecting resistors for power supply, motor circuits, etc.
- High reliability and performance with resistance tolerance  $\pm 0.5\%$ , T.C.R.  $\pm 100 \times 10^{-6}/K$
- Suitable for both reflow and flow solderings
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Tested

**dimensions and construction**

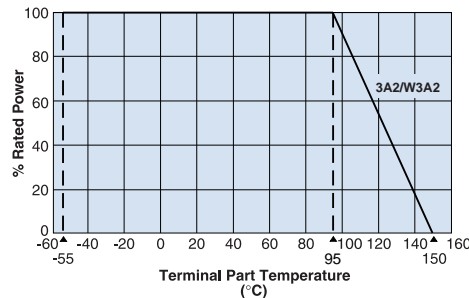


Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
<b>3A2 (2512)</b>	.248 $\pm$ .008 (6.3 $\pm$ 0.2)	.122 $\pm$ .008 (3.1 $\pm$ 0.2)	.02 $\pm$ .012 (0.5 $\pm$ 0.3)	.016 <sup>+0.008</sup> <sub>-.004</sub> (0.4 <sup>+0.2</sup> <sub>-0.1</sub> )	.024 $\pm$ .004 (0.6 $\pm$ 0.1)
<b>W3A2 (2512)</b>				.026 $\pm$ .006 (0.65 $\pm$ 0.15)	

**Derating Curve**



For resistors operated at an ambient temperature of 70°C or above, the power rating shall be derated in accordance with the above derating curve.



For resistors operated at a terminal part temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve. Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog before use.

**ordering information**

<b>SR73</b>	<b>3A2</b>	<b>T</b>	<b>TE</b>	<b>1R00</b>	<b>F</b>
Type	Size	Termination Material	Packaging	Nominal Resistance	Tolerance
	3A2 W3A2	T: Sn	TE: 7" embossed plastic For further information on packaging, please refer to Appendix A	$\pm 2\%$ , $\pm 5\%$ : 2 significant figures + 1 multiplier "R" indicates decimal on value <10 $\Omega$ $\pm 1\%$ : 3 significant figures + 1 multiplier "R" indicates decimal on value <100 $\Omega$ All values less than 0.1 $\Omega$ (100m $\Omega$ ) are expressed in m $\Omega$ with "L" as decimal Example: 20m $\Omega$ = 20L (3-digit)	F: $\pm 1\%$ G: $\pm 2\%$ J: $\pm 5\%$

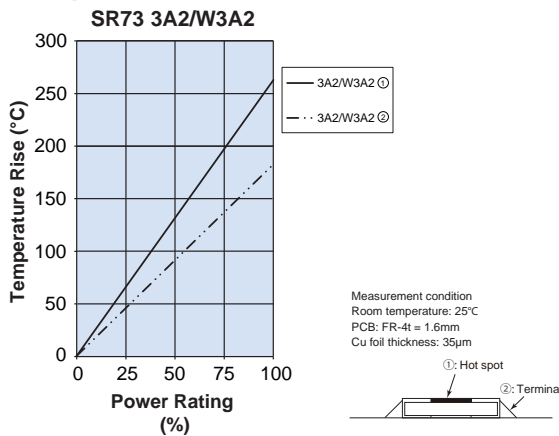
## applications and ratings

Part Designation*	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (ppm/°C) Max.	Resistance Range			
					E-24, E-96 (D±0.5%)	E-24, E-96 (F±1%)	E-24 (G±2%)	E-24 (J±5%)
SR733A2/W3A2 (2512)	2W*	70°C	95°C	±100	—	0.1Ω - 10Ω	—	—
				±200	—	—	0.1Ω - 10Ω	0.1Ω - 10Ω
				±500	—	—	—	0.056Ω - 0.091Ω
				±800	—	—	—	0.039Ω - 0.051Ω

\*Prior to use, refer to the "Higher Power Ratings" in the beginning of catalog. Operating Temp: -55°C to +150°C  
 If any questions should arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating curves on the terminal part temperature" in the beginning of the catalog.

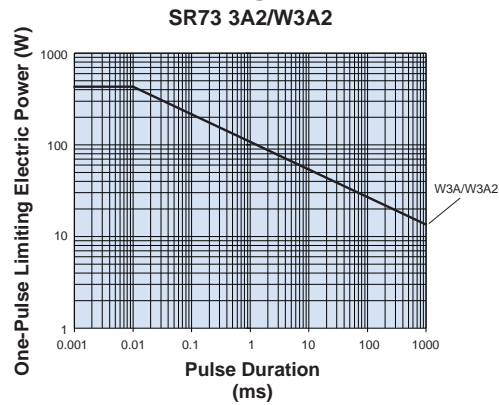
## environmental applications

### 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.  
 The pulse endurance values are not assured values, so be sure to check the products on actual equipment when you use them.

## 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%	±0.5%	Rated voltage x 2.0 for 5 seconds
Resistance to Solder Heat	±1%	±0.3%	260°C ± 5°C, 10 seconds ± 1 second
Rapid Change of Temperature	±1%	±0.3%	-40°C (30 minutes) / +125°C (30 minutes), 100 cycles
Moisture Resistance	±2%	±1%	40°C ± 2°C, 90%-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 70°C	±2%	±1%	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	±1%	±0.3%	+150°C, 1000 hours