

# Anti-Sulfur Chip Resistors

## NS Series

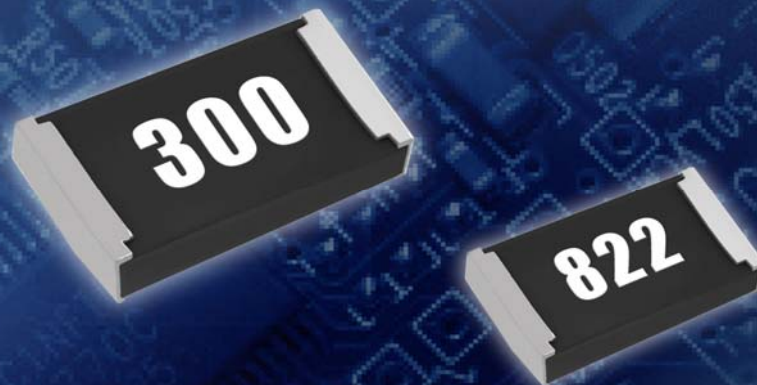


### Features:

- Resistant against sulfur rich environment with unique protection materials
- Suitable for reflow & wave soldering
- Halogen Free

### Application:

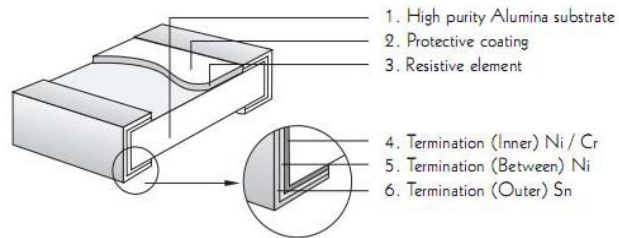
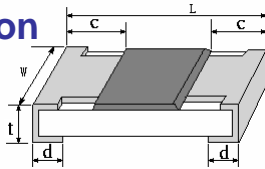
- Telecommunication equipment
- Industrial
- Automotive
- Power supply



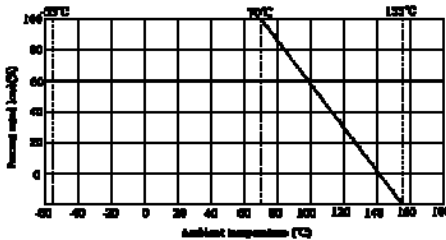
ISO / TS 16949  
ISO 14001

# Anti-Sulfurized Chip Resistors-NS Series

## Dimension



## Derating Curve



Type	Max Working Voltage	Max Overload Voltage	Operating Temperature Range
NS03	50V	100V	-55~+155°C
NS05	150V	300V	
NS06	200V	400V	

Type	Power(70°C)	L (mm)	W (mm)	t (mm)	c (mm)	d (mm)	Resistance Range ±1%、±5%
NS03	1/6W 1/10W-S	1.60±0.1	0.80+0.15-0.10	0.45±0.10	0.30±0.20	0.30±0.20	1 Ω~10M 0 Ω
NS05	1/10W 1/8W-S	2.00±0.15	1.25+0.15-0.10	0.55±0.10	0.40±0.20	0.40±0.20	
NS06	1/8W 1/4W-S	3.10±0.15	1.55+0.15-0.10	0.55±0.10	0.45±0.20	0.45±0.20	

## Characteristic

Test Item	Standard	Test Item	Standard
Temperature Coefficient	1 Ω ~10 Ω : ±400PPM/°C 11 Ω ~100 Ω : ±200PPM/°C > 100 Ω : ±100PPM/°C	Resistance to Soldering Heat	±(1.0%+0.05 Ω) Max
Short Time Overload	±1%: ±(1.0%+0.1 Ω) Max ±5%: ±(2.0%+0.1 Ω) Max	Temperature Cycling	±1%: ±(0.5%+0.05 Ω) Max ±5%: ±(1.0%+0.05 Ω) Max
Terminal Bending	±(1.0%+0.05 Ω)Max	Humidity (Steady State)	±1%: ±(0.5%+0.1 Ω) Max ±5%: ±(3.0%+0.1 Ω) Max
Solderability	Min. 95%coverage	Load Life	±1%: ±(1.0%+0.1 Ω) Max ±5%: ±(3.0%+0.1 Ω) Max
Dielectric Withstanding Voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown	Sulfuration Test	H2S 1000ppm, 25°C, 90%RH, 720h ±(0.50%+0.05 Ω) Max