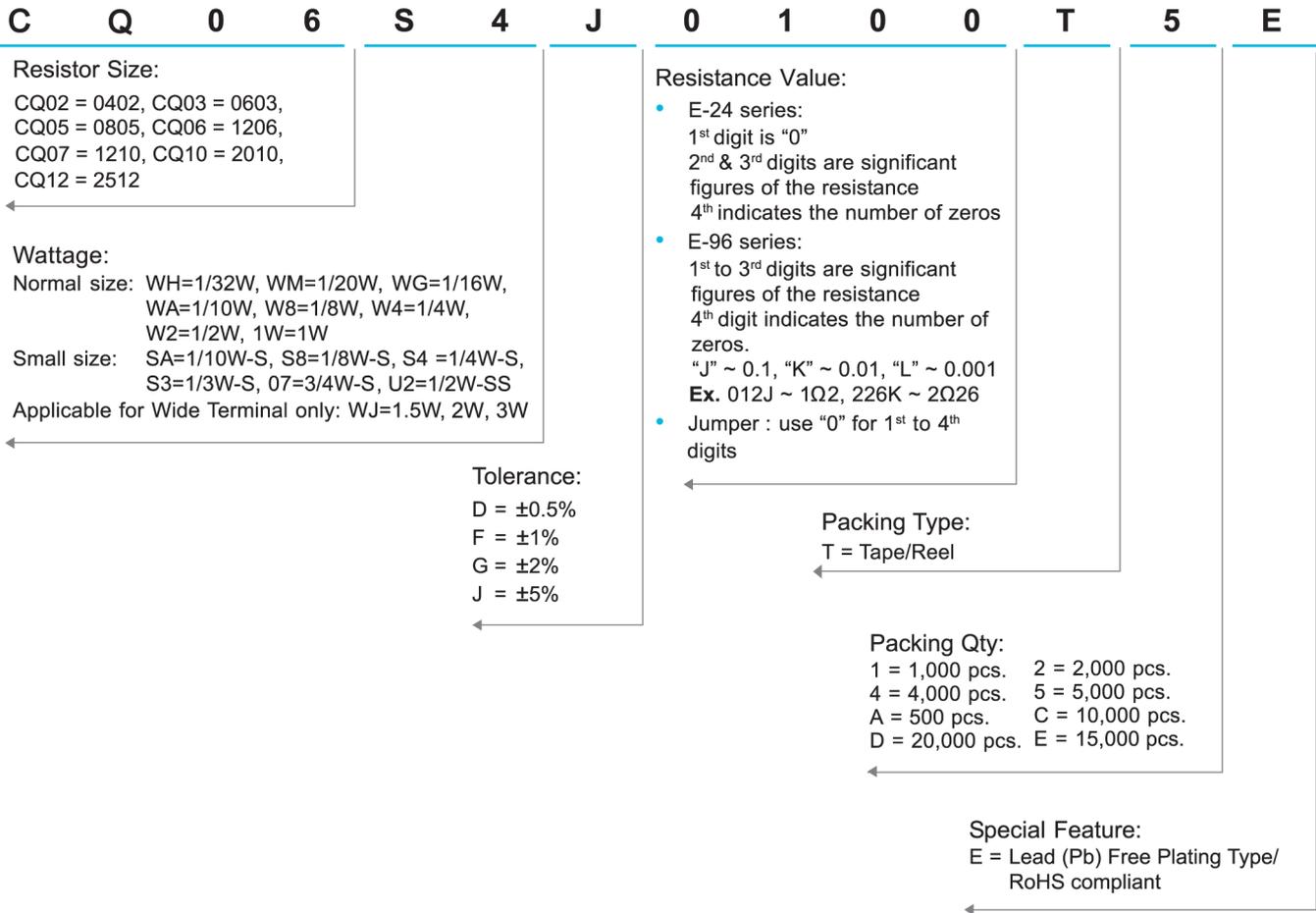


# Common Quality Anti-Sulfurized Chip Resistor

## Performance Specification

Temperature Coefficient	0.1Ω ~ 0.99Ω      ±800PPM/°C 1Ω ~ 10Ω            ±400PPM/°C 11Ω ~ 100Ω        ±200PPM/°C >100Ω                ±100PPM/°C
Short Time Overload	±5%: ±(2.0% + 0.1Ω)Max ±1%: ±(1.0% + 0.1Ω)Max
Insulation Resistance	Min. 1,000 Mega Ohm
Dielectric Withstanding Voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.
Terminal Bending	±(1.0% + 0.05Ω) Max
Soldering Heat	±(1.0% + 0.05Ω)Max
Solderability	Min. 95% coverage.
Temperature Cycling	±5% : ±(1.0% + 0.05Ω)Max ±1% : ±(0.5% + 0.05Ω)Max
Humidity (Steady State)	±5% : ±(3.0% + 0.1Ω)Max ±1% : ±(0.5% + 0.1Ω)Max
Load Life in Humidity	±5% : ±(3.0% + 0.1Ω)Max ±1% : ±(1.0% + 0.1Ω)Max
Load Life	±5% : ±(3.0% + 0.1Ω)Max ±1% : ±(1.0% + 0.1Ω)Max
Anti-Sulfurized test (H <sub>2</sub> S 3~5ppm, 50°C±2°C, 91%~93%RH, 1000H)	±5% : ±(5.0% + 0.1Ω)Max ±1% : ±(1.0% + 0.1Ω)Max

## Ordering Procedure: Ex.: CQ06, 1/4W-S, +/-5%, 10Ω T/R-5000



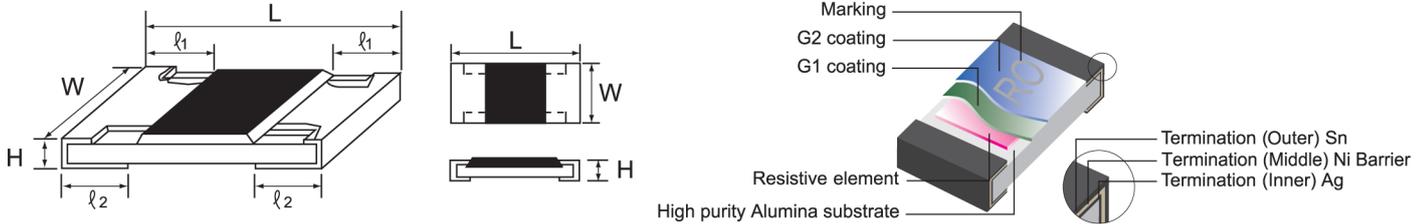
# Common Quality Anti-Sulfurized Chip Resistor



## Features

- Small size and light weight
- Suitable for both wave and reflow soldering
- Reduction of assembly costs
- Automotive application with Anti Sulfurized Performance
- The relevant provisions of AEC-Q200

## Dimension



Type	Power Rating at 70°C	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Tolerance %	Resistance Range	Dimension (mm)				
							L	W	H	l <sub>1</sub>	l <sub>2</sub>
CQ02 (0402)	1/16W	1A	2A	100V	Jumper	<50mΩ	1.00±0.10	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10
		50V	100V		±1% ±2% ±5%						
CQ03 (0603)	1/10W-S 1/16W	1A	2A	300V	Jumper	<50mΩ	1.60±0.10	0.80 <sup>+0.15</sup> <sub>-0.10</sub>	0.45±0.10	0.30±0.20	0.30±0.20
		50V	100V		±1% ±2% ±5%						
CQ05 (0805)	1/8W-S 1/10W	2A	5A	500V	Jumper	<50mΩ	2.00±0.15	1.25 <sup>+0.15</sup> <sub>-0.10</sub>	0.55±0.10	0.40±0.20	0.40±0.20
		150V	300V		±1% ±2% ±5%						
CQ06 (1206)	1/4W-S 1/8W	2A	10A	500V	Jumper	<50mΩ	3.10±0.15	1.55 <sup>+0.15</sup> <sub>-0.10</sub>	0.55±0.10	0.45±0.20	0.45±0.20
		200V	400V		±1% ±2% ±5%						
CQ07 (1210)	1/2W-SS 1/3W-S 1/4W	2A	10A	500V	Jumper	<50mΩ	3.10±0.10	2.60±0.15	0.55±0.10	0.50±0.25	0.50±0.20
		200V	400V		±1% ±2% ±5%						
CQ10 (2010)	3/4W-S 1/2W	2A	10A	500V	Jumper	<50mΩ	5.00±0.10	2.50±0.15	0.55±0.10	0.60±0.25	0.50±0.20
		200V	400V		±1% ±2% ±5%						
CQ12 (2512)	1W	2.5A	10A	500V	Jumper	<50mΩ	6.35±0.10	3.20±0.15	0.55±0.10	0.60±0.25	0.50±0.20
		200V	400V		±1% ±2% ±5%						

## Note:

- 1.) Metric information inside parenthesis.
- 2.) Standard Operating Temp ( °C ): -55 ~ +155
- 3.) Standard: E-96 series: 0.5%, 1%  
E-24 series: 2%, 5%
- 4.) Low resistance range (0.1Ω ~ 0.99Ω) is also available for CQ02, CQ03, CQ05, CQ06, CQ07, CQ10 and CQ12

## Derating Curve

