Anti-sulfurated・Current sensing・wide terminal type chip resistors CXQ series

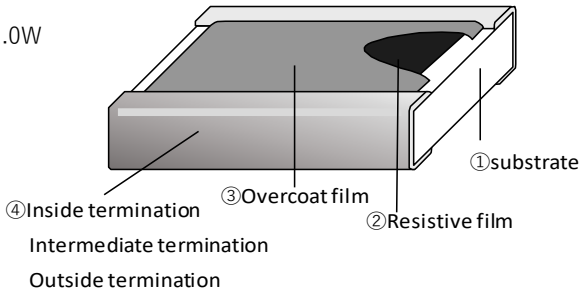
CXQ18（0612）

*(　): Inch size

■Features

・Guaranteed low resistance value 10mΩ and rated power 1.0W
・The use of a wide terminal type improves heat dissipation compared to short terminal type.
・The use of special termination contribute to high performance of anti-sulfuration.
・Also guaranteed ±0.5% (resistance value on request)
・RoHS qualified
・ELV qualified
・AEC-Q200 qualified

■Structure



■Part No. Explanation (Example)

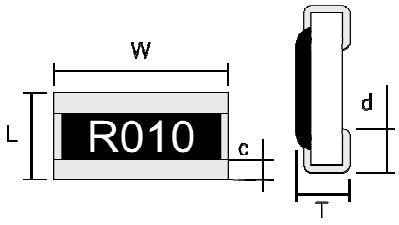
C	X	Q	5	0	T	T	8	R	0	1	0	J

Product type	Rated power and Size	Packaging form	Terminal structure	Material・storage	Nominal resistance value(*)	Resistance tolerance
CXQ： Current sensing・wide terminal type	18:0.75W,0612 50:1W,1020 1S:2W,1225	T：4mm pitch taping φ180 reel	T: 2 terminal	8:Silver Palladium-based material of thick film resistors・the resistive film form side should be stored in upward tape	The resistance value is indicated by 4-digit numbers.	J:±5% F:±1% D:±0.5%

＊R010=0.01Ω,R015=0.015Ω

*If there is a decimal point in resistance value, it is indicated by "R" and all numbers are significant numbers.

■Dimensions



	L	W	T	c	d
CXQ18	1.60±0.15	3.20±0.15	0.55 $^{+0.10}_{-0.05}$	0.25±0.15	0.35±0.15
CXQ50	2.50±0.20	5.00±0.20	0.55 ±0.20	0.25±0.20	0.90±0.20
CXQ1S	3.20±0.20	6.30±0.20	0.60±0.20	0.30±0.20	1.10±0.20

(Unit: mm)

＊External dimensions are for reference only.
Overcoat film color : Black
The resistance value is indicated by 4-digit numbers.
Indication color of resistance value：yellow

■Ratings

	Rated power	Range of rated resistance	Tolerance on rated resistance	Category temperature range	Temperature Coefficient of Resistance(T.C.R)		
CXQ18	0.75W	0.01Ω～1Ω	J(±5%)	-55°C～+155°C		0.01Ω～0.027Ω	±700×10⁻⁶/°C
						0.03Ω～0.036Ω	±150×10⁻⁶/°C
						0.039Ω～1Ω	±100×10⁻⁶/°C
		0.039Ω～1Ω	F(±1%)	-55°C～+155°C	Z	0.039Ω～1Ω	±100×10⁻⁶/°C
		0.039Ω～1Ω	D(±0.5%)	-55°C～+155°C	T	0.039Ω～1Ω	±100×10⁻⁶/°C

＊There are the supplementary information about rating on reference page.

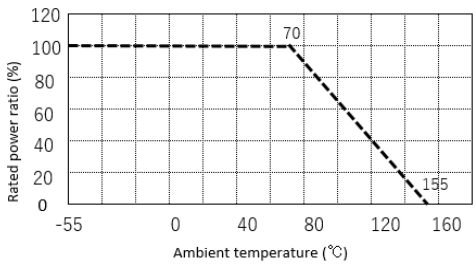
＊Possible to accommodate different specs from our catalog. Please contact us for details.

＊Temperature Coefficient of Resistance (T.C.R) is based on JIS C5201-1 6.2 between two points: 25°C and 125°C.

■Specifications and test methods

Item	Specifications	Test method
Overload	±(2%+0.0005Ω)	JIS C5201-1 8.1 2.5×Rated voltage, for 5 seconds
Bend strength of the face plating	±(1%+0.0005Ω)	JIS C5201-1 9.8 Bending distance : 3mm
Resistance to soldering heat	±(1%+0.0005Ω)	JIS C5201-1 11.2 260±5°C.10(sec.)
Solderability	Covered with more than 95%	JIS C5201-1 11.1 245±3°C.2(sec.)
Rapid change of temperature	±(1%+0.0005Ω)	JIS C5201-1 10.1 -55°C⇔+125°C,1000
Loadlife in humidity	±(3%+0.0005Ω)	60±2°C.90~95% R.H 1000h
Endurance at 70°C	±(3%+0.0005Ω)	JIS C5201-1 7.1 70±2°C.1000h

■Derating curve



＊Rated power of the resistor is the maximum power which can be loaded continuously at the ambient temperature of 70 °C. For the ambient temperature above 70°C, please use according to the load derating curve (dotted line). Please note that the component surface temperature does not exceed operating temperature range.