Sulfurization-proof Type Chip Resistor

Hokuriku Electric Industry Co.,Ltd

【Model Number】

CRES**

【Features】



■Use of pecial material for top electrode provides excellent sulfurization characteristic.

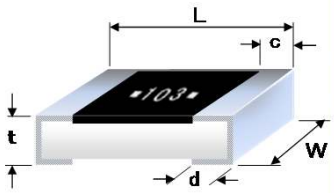
■Compared to normal type, 20 times or more of durability was achieved

■Miniature size or Network types are also available.

■Reflow, Flow solderings are applicable

【Dimensions】

(Unit: mm)



Model No.	L	W	t	c	d
CRES06	0.60±0.03	0.30±0.03	0.23±0.03	0.12±0.05	0.15±0.05
CRES10	1.00±0.05	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10
CRES16	1.60±0.15	0.80±0.15	0.50±0.10	0.25±0.20	0.25±0.20
CRES20	2.00±0.15	1.25±0.15	0.50±0.10	0.40±0.20	0.40±0.20
CRES32	3.20±0.15	1.60±0.15	0.56±0.15	0.50±0.20	0.50±0.20
CRES35	3.20±0.15	2.60±0.15	0.56±0.15	0.50±0.20	0.50±0.20
CRES50	5.00±0.15	2.50±0.15	0.56±0.15	0.60±0.25	0.60±0.20
CRES64	6.30±0.15	3.20±0.15	0.56±0.15	0.60±0.25	0.60±0.25

【Designation】

CRES16 - 103 J V
① ② ③ ④

①Model No.

Model No.	Size
CRES06	0603
CRES10	1005
CRES16	1608
CRES20	2012
CRES32	3216
CRES35	3225
CRES50	5025
CRES64	6432

②Resistance Value

Marking	Resistance
103	10KΩ

$103 = 10 \times 10^3 = 10{,}000\,\Omega = 10K\Omega$

③Resistance Tolerance

Symbol	Tolerance
F	±1.0%
G	±2.0%
J	±5.0%

③Packing Form

Symbol	Form
V	Paper tape
E	Emboss tape
B	Bulk

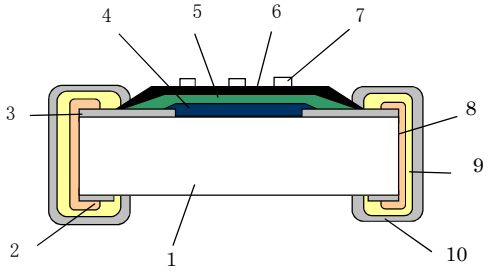
【Specification】

Model No.	Rated power (W) at 70℃	Tolerance	Range (Ω)	TCR (ppm/℃)	Max.Working Voltage	Max.Overload Voltage
CRES06	0.050	Class F (±1%) Class G (±2%) Class J (±5%)	10～1M	±250	25V	50V
CRES10	0.063				50V	100V
CRES16	0.100					
CRES20	0.125				150V	200V
CRES32	0.250				200V	400V
CRES35	0.250					
CRES50	0.500					
CRES64	1.000	Class G (±2%) Class J (±5%)	10～1M	±300		

＊Operating temperature range: −55～+155 ℃

【Structure】

Model No.	CRES10, CRES16, CRES06	CRES64, CRES50, CRES35, CRES32, CRES20
No.	Element Name	
1	Ceramic substrate	
2	Bottom electrode	
3	Special electrode	
4	Resistive element	
5	Protective coat Ⅰ	
6	Protective coat Ⅱ	
7	No Marking	Marking
8	Side electrode	
9	Ni plating	
10	Sn plating	



＊Design･specification are subject to change without prior notice. Please check before purchase and use.