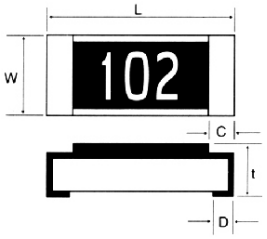
Flat Chip Resistors

CR Flat Chip Resistor

Features

1. Excellent mechanical strength and electrical stability due to special electrode construction.
2. Free from troubles at placement due to accurate and uniformed physical dimensions.



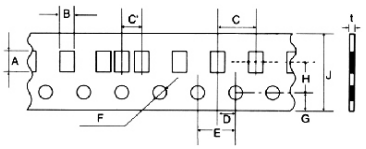
Characteristics

Requirements	Characteristics	Resistance Range	
		JIS C 5202	EIAJ RC 2690
Temp. Coefficient (ppm/°C)	±100, ±200	5.2	—
Terminal Strength	±(1%+0.1Ω)	—	6.5
	Over 1kg/mm²	—	—
Resistance to Soldering Heat	±(1%+0.05Ω)	6.4 270°C / 10sec	—
Short Time Overload	±(2%+0.05Ω)	5.5A	—
Intermittent Overload	±(2%+0.1Ω)	5.8	—
Temperature Cycling	±(1%+0.2Ω)	—	6.8
Load Life	±(3%+0.1Ω)	7.10 1000hr	—
Moisture Resistance	±(3%+0.1Ω)	7.9 1000hr	—
Electrode Solderability	95%	6.5 230°C / 5sec	—

Rating

Type	Inch	mm	Rated Power	Max Working Voltage	Max Overload Voltage	Resistance Range	Dimension					Operating Temp. Range	Pack a Reel
							L	W	C	D	t		
CR02	0402	1005	1/16W	50V	100V	J,F 10Ω~1MΩ	1.0±0.05	0.5±0.05	0.2±0.1	0.25 $^{+0.05}_{-0.1}$	0.35±0.05	-55°C 125°C	10000
CR03	0603	1608	1/10W	50V	100V	J 1Ω~10MΩ F10Ω~1MΩ	1.6±0.1	0.85±0.1	0.3±0.2	0.2 $^{+0.2}_{-0.1}$	0.4±0.05		5000
CR05	0805	2012	1/10W, 1/6W	150V	300V		2.05±0.1	1.3±0.1	0.4±0.2	0.3 $^{+0.2}_{-0.1}$	0.45 $^{+0.1}_{-0.05}$		5000
			1/8W	100V	200V		3.1±0.1	1.6±0.1	0.45±0.25	0.4 $^{+0.2}_{-0.1}$	0.55 $^{+0.1}_{-0.05}$		5000
CR06	1206	3216	1/4W, 1/2W	200V	400V								
CR10	1210	3225	1/4W, 1/2W	200V	400V		3.2±0.2	2.6±0.2	0.5±0.2	0.5±0.3	0.6±0.1		4000
CR20	2010	5025	1/2W	200V	400V		5.0±0.2	2.5±0.2	0.6±0.2	0.6±0.2	0.6±0.1		4000
CR12	2512	6332	1W	200V	400V		6.4±0.2	3.2±0.2	0.7±0.2	0.7±0.2	0.6±0.1		4000

Taping Dimensions



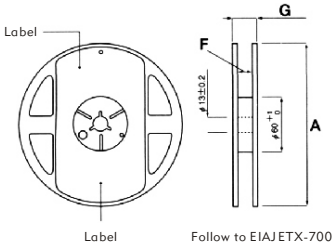
C'=CR02

Accumulated Dimensional Tolerance 40±0.2mm

mm

Type	A	B	C	D	E	F	G	H	J	t
CR02	1.15±0.1	0.65±0.1	2.0±0.05	1.0±0.05	2.0±0.05	1.5 $^{+0.1}_{-0}$	1.75±0.1	3.5±0.05	8.0±0.2	0.55±0.1
CR03	1.9±0.1	1.1±0.1	4.0±0.1	2.0±0.05	4.0±0.05	1.5 $^{+0.1}_{-0}$	1.75±0.1	3.5±0.05	8.0±0.2	0.7±0.1
CR05	2.4±0.1	1.65±0.1	4.0±0.1	2.0±0.05	4.0±0.05	1.5 $^{+0.1}_{-0}$	1.75±0.1	3.5±0.05	8.0±0.2	0.9±0.1
CR06	3.5±0.1	1.9±0.1	4.0±0.1	2.0±0.05	4.0±0.05	1.5 $^{+0.1}_{-0}$	1.75±0.1	3.5±0.05	8.0±0.2	0.9±0.1
CR10	3.5±0.1	2.8±0.1	4.0±0.1	2.0±0.05	4.0±0.05	1.5 $^{+0.1}_{-0}$	1.75±0.1	3.5±0.05	8.0±0.2	0.9±0.1
CR20	5.3±0.1	2.9±0.1	4.0±0.1	2.0±0.05	4.0±0.05	1.5 $^{+0.1}_{-0}$	1.75±0.1	5.5±0.05	12.5±0.2	1.0±0.1
CR12	6.6±0.1	3.4±0.1	4.0±0.1	2.0±0.05	4.0±0.05	1.5 $^{+0.1}_{-0}$	1.75±0.1	5.5±0.05	12.5±0.2	1.0±0.1

Reel Dimensions



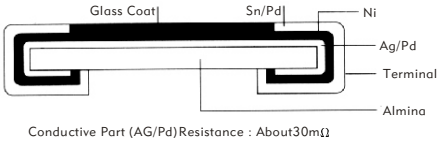
Follow to EIAJ ETX-700

mm

Type	CR02,03,05,06,10	CR20,CR12
A	ϕ180 $^{+0}_{-3}$	ϕ180 $^{+0}_{-3}$
F	9.0±0.3	13.0±0.3
G	11.4±1.0	15.4±1

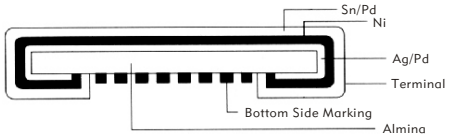
Structure · Material

1. Conventional Type (Section Cut)



Conductive Part (AG/Pd) Resistance : About30mΩ

2. Low Impedance Jumper (Section Cut)



A. Conductive part (Ag/Pd+Ni+Sn/Pd) is lower in impedance than Ag/Pd rely.
B. Flow soldering is made like below sketch resulting lowering in impedance.