



# 1% Thick Film Chip Resistors (RoHS Compliant) CR1-RC Series

## FEATURES

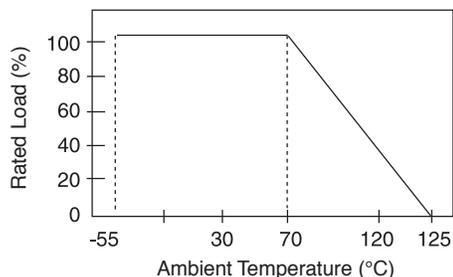
- Temperature Range: -55°C ~ +125°C
- High purity alumina substrate
- Wave or flow solderable
- Excellent high frequency characteristics
- Wrap around termination
- Inner electrode protection



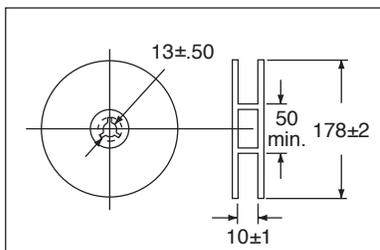
RoHS Compliant



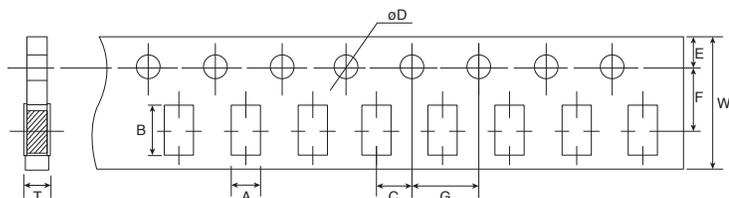
## DERATING CURVE



## REEL DIMENSIONS (mm)

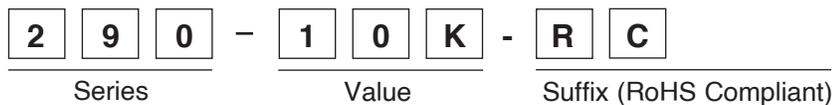


## TAPING DIMENSIONS (mm)

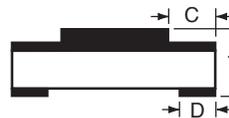
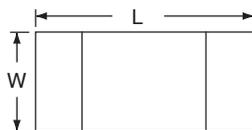


A ± 0.2	B ± 0.2	C ± 0.05	øD ± 0.1	E ± 0.1	F ± 0.05	G ± 0.1	W ± 0.2	T ± 0.1
2.00	3.60	2.0	1.5	1.75	3.5	4.0	8.0	0.81

## PART NUMBERING SYSTEM



## SERIES, SIZE, WATTAGE, VOLTAGE, AND DIMENSIONS



Series	Case Size	Watts (W)	Voltage (V) (max.)		Dimensions (mm)				
			W.V.	O.V.	L	W	C	D	T
304	0402	1/16	25	50	1.0 ± .10	.50 ± .05	.20 ± .10	.25 ± .10	.35 ± .05
302	0603	1/10	50	100	1.6 ± .10	.80 ± .15	.30 ± .20	.30 ± .20	.45 ± .10
292	0805	1/8	150	300	2.0 ± .15	1.25 ± .15	.40 ± .20	.40 ± .20	.55 ± .10
290	1206	1/4	200	400	3.1 ± .15	1.55 ± .15	.45 ± .20	.45 ± .20	.55 ± .10







# 1% Thick Film Chip Resistors (RoHS Compliant) CR1-RC Series

## ■ CHARACTERISTICS (Cont.)

Characteristics	Limits	Test Methods ( JIS C 5201-1 )															
Temperature cycling	$\pm (1.0\% + 0.05\Omega)$ Max.	7.4 Resistance change after continuous 5 cycles for duty shown below:															
		<table border="1"> <thead> <tr> <th>Step</th> <th>Temperature</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-55°C <math>\pm 3^\circ\text{C}</math></td> <td>30 mins</td> </tr> <tr> <td>2</td> <td>Room temp.</td> <td>10~15 mins</td> </tr> <tr> <td>3</td> <td>+155°C <math>\pm 2^\circ\text{C}</math></td> <td>30 mins</td> </tr> <tr> <td>4</td> <td>Room temp.</td> <td>10~15 mins</td> </tr> </tbody> </table>	Step	Temperature	Time	1	-55°C $\pm 3^\circ\text{C}$	30 mins	2	Room temp.	10~15 mins	3	+155°C $\pm 2^\circ\text{C}$	30 mins	4	Room temp.	10~15 mins
		Step	Temperature	Time													
		1	-55°C $\pm 3^\circ\text{C}$	30 mins													
		2	Room temp.	10~15 mins													
3	+155°C $\pm 2^\circ\text{C}$	30 mins															
4	Room temp.	10~15 mins															
Load life in humidity	Resistance change rate is $\pm (3.0\% + 0.1\Omega)$ Max.	7.9 Resistance change after 1,000 hours (1.5 hours "on", 0.5 hour "off") at RCWV in a humidity chamber controlled at 40°C $\pm 2^\circ\text{C}$ and 90 to 95 % relative humidity															
Load life	Resistance change rate is $\pm (3.0\% + 0.1\Omega)$ Max.	7.10 Permanent resistance change after 1,000 hours operating at RCWV, with duty cycle of ( 1.5 hours "on", 0.5 hour "off" ) at 70°C $\pm 2^\circ\text{C}$ ambient															
Soldering Heat	Electrical characteristics shall be satisfied. Without distinct deformation in appearance.	<u>Solder bath method</u> Pre-Heat: 100 to 105°C, 30 $\pm 5$ sec. Temperature: 265 $\pm 3^\circ\text{C}$ , 5 +1/-0 sec  <u>Reflow soldering method</u> Peak: 250 +5/-0°C 230°C or higher, 30 $\pm 10$ Sec.  <u>Solder iron method</u> Bit temperature: 350° $\pm 10^\circ\text{C}$ Application time of soldering iron: 3 +1/-0 seconds															
Solderability	95% Coverage min.	6.5 Test temperature of solder: 245° $\pm 3^\circ\text{C}$ Dipping them solder: 2~3 seconds															



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Thick Film Resistors - SMD category](#):*

*Click to view products by [Xicon manufacturer](#):*

Other Similar products are found below :

[MCR01MZPF1202](#) [MCR01MZPF1800](#) [MCR01MZPF6201](#) [MCR01MZPJ121](#) [MCR03EZPFX2004](#) [MCR10EZPF1102](#) [RC1005F471CS](#)  
[RC1005F6041CS](#) [RC1608F333CS](#) [RC2012J105CS](#) [RC2012J470CS](#) [RC3216F100CS](#) [RC3216F272CS](#) [RC3225F30R1CS](#)  
[RMCF0603FT300K](#) [RMCF0805FT221K](#) [RMCF1210JT20R0](#) [RMCF1210JT68K0](#) [RMCF1210ZT0R00](#) [RMCF2512FT1R00](#)  
[RMCF2512JT20R0](#) [RMCF2512JT7K50](#) [RMCF2512JT910R](#) [NRC04F1000TRF](#) [NRC04F1004TRF](#) [NRC04F10R0TRF](#) [NRC04F1132TRF](#)  
[NRC04F2001TRF](#) [NRC04F2002TRF](#) [NRC04F2203TRF](#) [NRC04F2400TRF](#) [NRC04F3011TRF](#) [NRC04F33R0TRF](#) [NRC04F51R1TRF](#)  
[NRC04J103TRF](#) [NRC04J104TRF](#) [NRC04J204TRF](#) [NRC04ZOTRF](#) [NRC06F1000TRF](#) [NRC06F1002TRF](#) [NRC06F1003TRF](#)  
[NRC06F10R0TRF](#) [NRC06F1472TRF](#) [NRC06F1502TRF](#) [NRC06F2001TRF](#) [NRC06F2002TRF](#) [NRC06F2003TRF](#) [NRC06F2211TRF](#)  
[NRC06F2490TRF](#) [NRC06F24R9TRF](#)