

2瓦功率型貼片電阻

2W CR-2512 Series

High Power Thick Film Chip Resistor

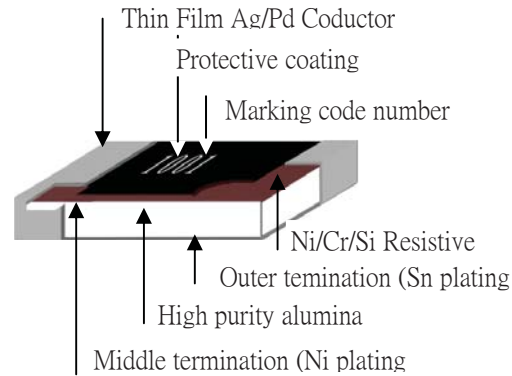
FEATURE

- ◆ Low ohm : Most suitable as resistor for current detection in power source circuits. Motor circuit. Etc.
- ◆ High ohm: Design for using in compact instrument i.e. pyroelectric sensor etc.

FIGURE



CONSTRUCTION

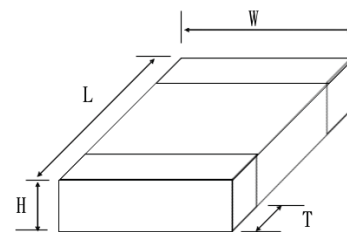


ORDERING INFORMATION

Example: CR25-22FER100P

Power	Type	Tolerance	TCR(ppm/°C)	Resistance	Packing
2W (2512)	CR25-22	J = ±5%	E=±100ppm K=±150ppm F=±200ppm G=±300ppm H=±400ppm	50m=R05Ω	4K Reel
		H = ±3%		100m=R1Ω	
		G = ±2%		1000m=1Ω	
		F = ±1%		1R = 1R00	
		D = ±0.5%		10R=10R0	
		C = ±0.25%		100R=100R	
		B = ±0.1%		1K = 1001	
		T = ±0.01%		10K = 1002	
				100K=1003	
				1M=1-004	
	10M=1005				
	100M=1006				

Marking



DIMENSION

Power	Type	L	W	H	T
2W (2512)	CR25-22	6.30±0.2	3.20±0.2	0.55±0.1	0.60±0.2

RATINGS

Power	Type	Maximum (at 70°C)		Resistance (Ω)	Tolerance (%)	TCR (ppm/°C)	Jumper Current	Jumper Resistance	Operating Temp.
		Working	Overload						
2W	CR25-22	200V	400V	1R ~ 9R9	F,G,J	±400	2A	50m Ω Max.	-55°C ~ +125°C
				10R ~ 10M	G,J	±200			
				10R ~ 1M	B,D,F.	±100			
2W	CR25-22	200V	400V	10.1~54M	F	±200	2A	50m Ω Max.	-55°C ~ +125°C
				10.1~100M	J				
				10.1~100M	K				



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RATINGS:

◆ LOW OHM

Power (at 70°C)	Type	Rate Current		Voerload Voltage (Vo)	Resiatance (Ω)	Tolerance (%)	TCR (ppm/°C)	Operating Temp.
		Voltage (Vr)	Voltage(Vw)					
2W	CR12-22	0.54V~3.45V	1.72V	3.46V Max.	0R01 ~ 0R99	F:±1%	±800	-55°C ~ +125°C
					0R01 ~ 0R99	J:±5%	±1500	

RATED RESISTANCE

RESISTANCE / CODE						
10mΩ / R010	56mΩ / R056	80mΩ / R080	0.15Ω / R150	0.27Ω / R270	0.47Ω / R470	0.70Ω / R700
15mΩ / R015	60mΩ / R060	90mΩ / R090	0.16Ω / R160	0.30Ω / R300	0.50Ω / R500	0.75Ω / R750
20mΩ / R020	65mΩ / R065	0.10Ω / R100	0.18Ω / R180	0.33Ω / R330	0.56Ω / R560	0.80Ω / R800
30mΩ / R030	68mΩ / R068	0.11Ω / R110	0.20Ω / R200	0.36Ω / R360	0.60Ω / R600	0.90Ω / R900
40mΩ / R040	70mΩ / R070	0.12Ω / R120	0.22Ω / R220	0.40Ω / R400	0.65Ω / R650	
50mΩ / R050	75mΩ / R075	0.13Ω / R130	0.25Ω / R250	0.43Ω / R430	0.68Ω / R680	

◆ HIGH OHM

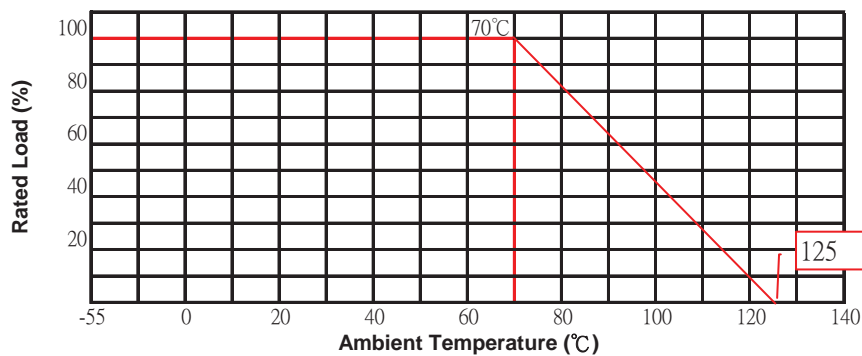
Power	Type	Maximum (at 70°C)		Resiatance (Ω)	Tolerance (%)	TCR (ppm/°C)	Jumper Current	Jumper Resistance	Operating Temp.
		Working	Overload						
2W	CR12-22	200V	400V	10.1~54M	F	±200	2A	50m Ω Max.	-55°C ~ +125°C
				10.1~100M	J				
				10.1~100M	K				

◆ TRIMMABLE CHIP RESISTOR (TCR SERIES)

Power	Type	Maximum (at 70°C)		Resiatance (Ω)	Tolerance (%)	TCR (ppm/°C)	Jumper Current	Jumper Resistance	Operating Temp.
		Working	Overload						
2W	CR12-22	200V	400V	10R ~1M	±15%	±200	2A	50m Ω Max.	-55°C ~ +125°C
					±20%				
					±30%				

◆ POWER DERATING CURVE

In case resistor operating ambient, temperature in excess of the temperature range -55°C ~ 125°C rated load will be derated in accordance with the figure as shown on the right.



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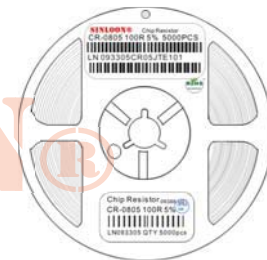
ENVIRONMENTAL CHARACTERISTICS

ITEM	SPECIFICATION	TEST METHOD
(1) Temperature Coefficient of Resistance	As Specification	JIS-C-5202 5.2/IEC 60115-1 4.8 +25/-55, +25/125, +155/+25°C.
(2) Thermal Shock	±(1.0+0.05Ω)	MIL-STD-202F, Method 107 -55°C~125,155°C,5 cycles
(3) Short Time Overload	±(2.0+0.05Ω)	MIL-R-55342D 4.7.5 RCWV*2.5 or Max Overloading Voltage, 5 seconds
(4) High Temperature Exposure	±(2.0+0.05Ω)	MIL-R-55342D 4.7.6 1000 hours @ +125°C without load
(5) Load Life	±(3.0+0.05Ω)	MIL-STD-202F M108 RCWV, 70°C, 1.5 hours on, 0.5 hours off total 1000~1048 hours
(6) Resistance to Soldering Heat	±(1.0+0.05Ω)	MIL-R-55342D 4.7.7 260±5°C, 10±1seconds
(7) Moisture Resistance	±(2.0+0.05Ω)	MIL-STD-202F, Method 103 40°C, 90~95%RH, 1000 hours
(8) Low Temperature Operation	±(1.0+0.05Ω)	MIL-R-55342D 4.7.4 1hour, -55°C, followed by 45 minutes of RCWV
(9) Bending Strength	±(1.0+0.05Ω)	JIS-C-5202 6.1.4 5 mm deflection in either direction, 10 seconds
(10) Solderability	95% min coverage	MIL-STD-202F-Method 208H 235±5°C,2±0.5seconds

* Storage Temperature :25±3°C; Humidity <80%RH

PACKAGE SPECIFICATION

CR Series	Reel Size	Quantity(ea)		
		Paper Reel Tape	In Box	Carton
CR25-22	7" (180mm)	4,000 Pcs	40K pcs	240K pcs



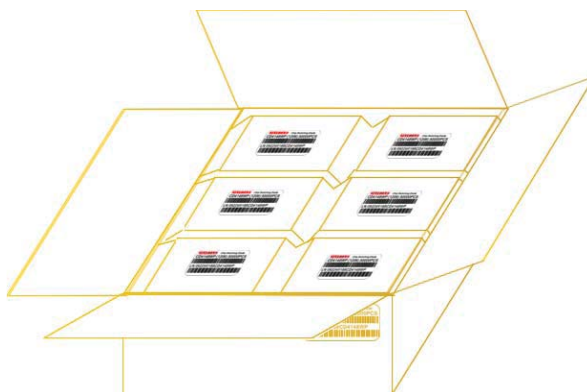
Reel Tape Label



Paper Reel Tape



In Box



Carton Pack

