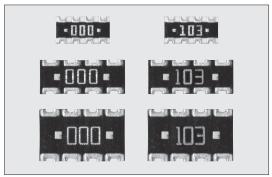


CN-RT ■抗硫化片式网络电阻器(凹型)

Anti Sulfuration Chip Networks (Concave Termination)



外观颜色:黑色 Coating color: Black

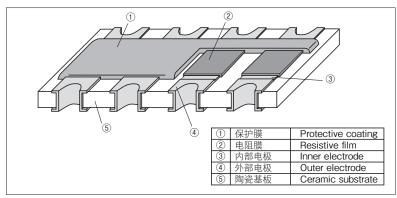
■特点 Features

- 内部上电极使用高性能抗硫化材料,内部上电极不会被硫化
- 和而片状电阻比贴片密度增加。
- 产品使用个数减少, 贴片成本降低。
- 在回流焊过程中自我调整性高
- 安装时易于进行图像识别。
- 适用于回流焊接和波峰焊接。
- ●端子为无铅品对应欧盟RoHS.。电极,电阻,玻璃釉包含铅 玻璃成分,此成分不包含在欧盟RoHS之中。
- Excellent anti-sulfuration characteristic due to using high sulfuration-proof inner top electrode material.
- More advancement in the mounting density than individual chip resistors
- Mounting cost reduction by decreasing the number of parts mounting times.
- Higher self-alignment effect in reflow-soldering process.
- Suitable for an image recognition mounter due to square corner design.
- Suitable for both reflow and flow solderings
- Products with lead free termination meet EU-RoHS requirements. EU-RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.

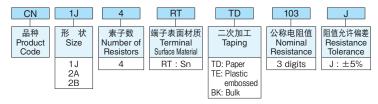
■参考标准 Reference Standards

IEC 60115-1 JIS C 5201-1

■ 结构图 Construction



■ 品名构成 Type Designation 实例 Example



端子表面材质,以无铅品为准。

预知关于此产品含有的环境负荷物质详情(除EU-RoHS以外),请与我们联系。 编带细节请参考卷末附录C

The terminal surface material lead free is standard

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

For further information on taping, please refer to APPENDIX C on the back pages

■ 用途 Applications

- 用于数字电路的阻尼电阻,推挽电阻和终端电阻。
- ●限制LED的电流。
- Resistors for Damping, Pull-up/Pull-down, Termination for digital circuits.
- LED current limiting.

■额定值 Ratings

	型 号 Type	额定功率 Power Rating (W/Element)	电阻值范围 Resistance Range(Ω) J:±5% E24	电阻温度系数 T.C.R. (×10 ⁻⁶ /K)	最高使用电压 Max. Working Voltage	最高过载电压 Max. Overload Voltage	额定周围温度 Max. Overload Voltage	使用温度范围 Max. Overload Voltage	编带和包 Taping & Q'ty TD	
	CN1J4RT	0.063			50V	100V			5,000	_
新	CN2A4RT	0.1	10∼1M	±200	100V	200V	+70℃	-55~+125°C	_	4,000
新〉	CN2B4RT	0.125			200V	400V]		_	4.000

按照额定功率使用时,比单一的贴片电阻的发热温度高,在使用时请加以注意。

Please note that network resistors generate higher heat rather than single flat chip resistor even under rated power output.

额定电压是√额定功率×公称电阻值所算出的值或表中最高使用电压两者中小的值为额定电压。

Rated voltage = Power Rating × Resistance value or Max. working voltage, whichever is lower.

■ 电路构成 Circuit Construction

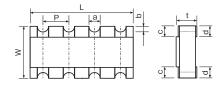
CN1J4RT							
CN2A4RT							
CN2B4RT							
$\begin{array}{c c} & & & & \\ & & & & \\ R_1 & & & & \\ R_2 & & & \\ R_3 & & & \\ R_1 = R_2 = R_3 = R_4 \end{array}$							

■ Jumper规格 Jumper Ratings

型号 Type	电阻值 Resistance	额定电流 Current Rating		
CNZ1J4RT	50 04-	0.5A		
CNZ2A4RT	50mΩ以下 50mΩmax.	1.00		
CNZ2B4RT	Johnseniax.	1.0A		



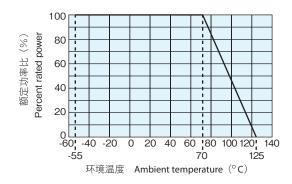
■ 外形尺寸 Dimensions



型号	尺寸 Dimensions (mm)										
Туре	L±0.2	W±0.2	С	d±0.1	t±0.1	a (top)	a (bottom)	b±0.1	Р	(1000pcs)	
CN1J4RT	3.20	1.6	0.3±0.2	0.40		0.5±0.1	0.4±0.15		(0.8)	10.2	
CN2A4RT	5.08	2.0	0.4±0.2		0.6	0.8±0.1	0.75±0.1	0.15	(1.27)	20.6	
CN2B4RT		3.2	0.5±0.3	0.55						33.5	

^() 内的数值作为参考。 Figures in parenthesis are referential values.

■ 负荷特性曲线 Derating Curve

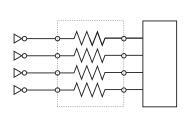


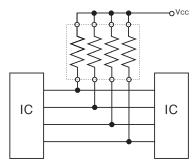
在环境温度70℃以上使用时,应按照上图负荷特性曲线,减小额定功率。 For resistors operated at an ambient temperature of 70 $^{\circ}$ C or above, a power rating shall be derated in accordance with the above derating curve.

■ 性能 Performance

试验项目 Test Items	标准值 Performance Requir ▲R±%	rements	试验方法			
rest items	保证值 Limit	代表值 Typical	Test Methods			
电阻值 Resistance	在规定的允许偏差内 Within specified tolerance		25°C			
电阻温度系数 T.C.R.	在规定值以内 Within specified T.C.R.	_	+25°C/-55°C and +25°C/+125°C			
过载(短时间) Overload(Short time)	2	0.5	额定电压×2.5倍施加5秒钟 Rated voltage×2.5 for 5s			
耐焊接热 Resistance to soldering heat	1	0.25	260°C±5°C, 10s±1s			
温度突变 Rapid change of temperature	1	0.5	-55°C (30min.) /+125°C (30min.) 5 cycles			
耐湿负荷 Moisture resistance	5	1	40℃±2℃, 90%~95%RH, 1000h 1.5小时ON、0.5小时OFF的周期 1.5h ON/0.5h OFF cycle			
在70℃时的耐久性 Endurance at 70℃	5	0.5	70℃±2℃, 1000h 1.5小时ON、0.5小时OFF的周期 1.5h ON/0.5h OFF cycle			
低温放置 Low temperature exposure	1	0.2	−55°C, 1h			
高温放置 High temperature exposure	1	0.2	+125°C, 100h			

■ 应用范例 Examples For Circuit Board Application





■ 使用注意事项 Precautions for Use

- 网络电阻器偶尔会发生Cross Talk的情况,当把它们用于高频电路时,在电路设计时请考虑Cross Talk的影响。
- A few cross talks will occur in network resistors. In case of using them for a high frequency circuit, please design circuits taking the effect by the cross talks into consideration.