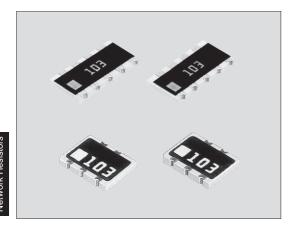


# CNBI 网络电阻器(贴片) Chip Networks (Concave Termination)



#### 外观颜色: 黑色 Coating color: Black

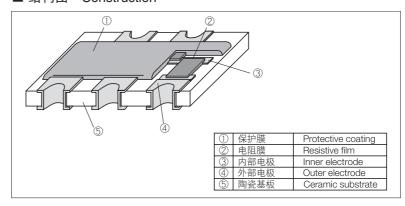
## ■ 特点 Features

- ●比贴片电阻具有更高的安装密度。
- 部件安装次数的减少降低了安装成本。
- 提高了回流焊接时候的自定位效果。
- 安装时易于进行图像识别。
- ●适用于回流焊和波峰焊。
- 用于推挽电阻时,可以将元件4联装或者8联装。
- 易于使用Zigzag Electrode来进行印刷电路板布置。
- ●端子无铅电镀品,符合欧盟RoHS。电极、电阻膜层、玻 璃中所含的铅玻璃不适用欧盟RoHS指令。
- 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 reflow soldering.
- 4 or 8 elements are integrated for Pull-up/Pull-down.
- Easy to make a PWB layout with a zigzag electrode.
- Products with lead free termination meet EU-RoHS requirements. EU-RoHS regulation is not intended for Pbglass contained in electrode, resistor element and glass.

#### ■ 参考标准 Reference Standards

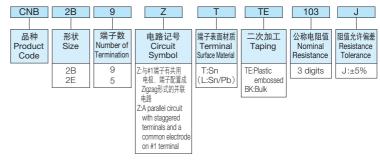
IEC 60115-1 JIS C 5201-1

#### ■ 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。

欲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

- 用于数字电路的推挽电阻。
- Resistors for Pull-up / Pull-down for digital circuits

## ■ 额定值 Ratings

		U								
	型 号 Type	额定功率 Power Rating (W/Element)	电阻值范围 Resistance Range (Ω) E3	阻值允许偏差 Resistance Tolerance	电阻温度系数 T.C.R. (×10 <sup>-6</sup> /K)			额定周围温度 Max. Overload Voltage	使用温度范围 Max. Overload Voltage	编带和包装数/卷 Taping & Q'ty /Reel(pcs) TF
Ì	CNB2B9Z	0.000	11.5 4701	1. + 50/	+000	FOV	1001/	+70°C	-55°C∼+125°C	4,000
ſ	CNB2E5Z	0.063	1k∼470k	J:±5%	±200	50V	100V	T/0 C	-55 C/~ + 125 C	4.000

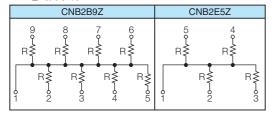
按照额定功率使用时,比单一的贴片电阻的发热温度高,在使用时请加以注意。

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。

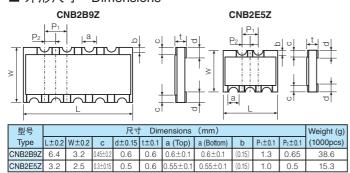
Rated voltage =  $\sqrt{\text{Power Rating} \times \text{Resistance value}}$  or Max. working voltage, whichever is lower.

#### ■ 电路构成 Circuit Construction



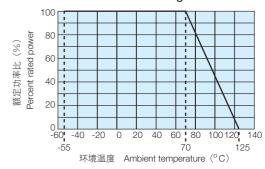


# ■ 外形尺寸 Dimensions



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

#### ■ 负荷减轻特性曲线 **Derating Curve**

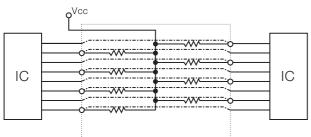


在环境温度70℃以上使用时,应按照上图负荷减轻特性曲线,减小额定功率。 For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the above derating curve.

# ■ 性能 Performance

试验项目 Test Items	标准值 Performance Requirements ΔR±%		试验方法 Test Methods		
rest items	保证值 Limit	代表值 Typical	rest Methods		
电阻值 Resistance	在规定的允许偏差内 Within specified tolerance	_	25℃		
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℃±5℃, 10s±1s		
温度突变 Rapid change of temperature	1	0.1	-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		
高温放置 High temperature exposure	1	0.2	+125°C, 1000h		

#### ■ 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串扰的情况,当把它们用于高频电路时,在电路设计时请考虑串扰的影响。
- A few cross talks will happen in network resistors. Design the circuit taking the effect by the cross talks into consideration as very low voltage will occur to the resistor elements that don't pass current by the voltage drop in common electrode if current flows to the common electrodes.

www.koaglobal.com