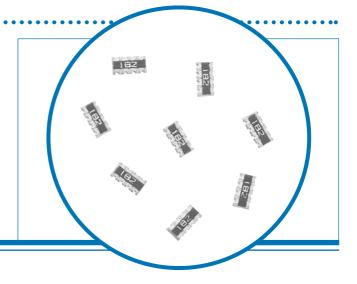
# Chip Resistor Arrays



#### **WNCR Series**

- Reduced placement cost
- Compact size
- Zero ohms also available
- Design flexibility



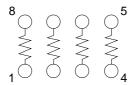
# **Electrical Data**

		WNCR
Power rating per resistor at 70°C	watts	0.063
Resistance range (E24)	ohms	10 to 1M
TCR -55 to 125°C	ppm/°C	±200
Resistance tolerance	%	±5
Maximum overload voltage	volts	100
Maximum working overload	volts	50
Ambient temperature range	°C	-55 to +125

# Physical Data

Dimensions (	mm)								⊢t⊣	<b>├</b>
Туре	L	W	a	b	C	d	р	t		<u> </u>
WNCR 164	3.20	1.60	0.50	0.5	0.35	0.40	0.8	0.45		
Concave	±0.15	±0.15	±0.15		±0.15	±0.15		±0.10	La⊢	- <b>b</b> -
Terminations										
Туре	L	W	a	b	С	d	р	t		
WNCR 168	3.20	1.60	0.60	0.40	0.25	0.30	0.8	0.50	103 w	
Convex	±0.10	±0.10	±0.15	±0.15	±0.15	±0.20		±0.10		
Terminations									⊢а⊣	

# Schematic



#### Construction

Substrate Alumina Resistor Ruthenium Oxide **Terminations** Nickel & solder plated

### Solderability

At least 95% of the terminal area shall be covered by continuous smooth new solder.

#### Marking

Normal resistance value is marked on the top of the resistor with three digits.

The first two digits are significant of the nominal value and the third digit is the multiplier.

#### **General Note**

Welwyn Components reserves the right to make changes in product specification without notice or liability. All information is subject to Welwyn's own data and is considered accurate at time of going to print.



# Chip Resistor Arrays

**WNCR Series** 

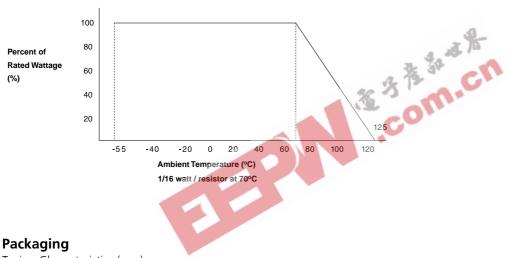


# Performance Data

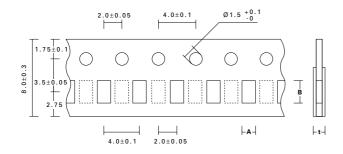
		Typical Performance
Short term overload	∆R%	2.5
Resistance to solder heat	ΔR%	2.0
Temperature cycling	ΔR%	2.0
Moisture load life: 1000 hrs at 40°C	ΔR%	3.0
Load life: 1000 hrs at 70°C	ΔR%	3.0
Low temperature exposure: 1000 hrs at -55°C	ΔR%	3.0
High temperature exposure: 1000 hrs at 125°C	ΔR%	3.0
Humidity exposure: 1000 hrs at 40°C	∆R%	3.0

### **Power Rating**

For ambient temperature above 70°C, the power shall be derated as follows:



Taping Characteristics (mm)



	Α	t	В
WNCR	2.0 +0.1	0.8	3.75 +0.1
	-0.15	±0.2	-0.15

### **Packaging**

Resistor arrays are supplied tape and reel.

Quantity 5,000 pcs per reel.