

INTRODUCTION

The YCN series is a chip resistor network which employ high density surface mount technology for higher productivity at reduced assembly cost and offering single component reliability.

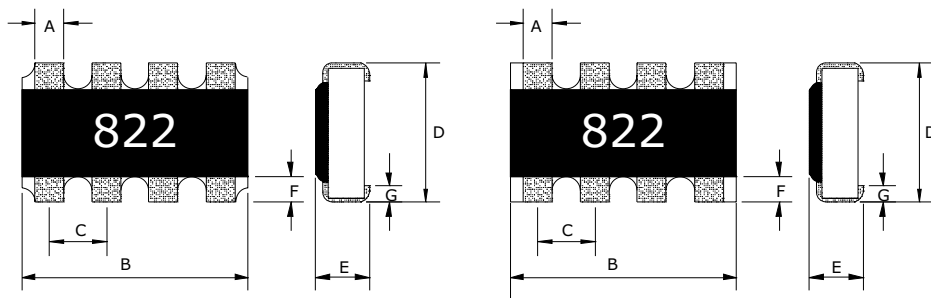
FEATURES

- Wide resistance range.
- Suitable for automatic insertion.
- Designed to be suitable for wave and reflow soldering.
- Series with various case sizes in banks of 2 or 4 resistors.

RATINGS

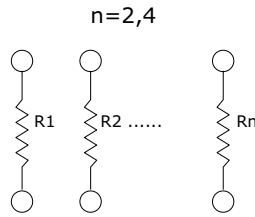
Type	YCN 10	YCN 16
Rated Power at 70°C	1/16W	1/16W
Operating Temp Range	-55°C to +125°C	-55°C to +125°C
Derating to 0 load at	125°C	125°C
Maximum Working Voltage	25V	50V
Maximum Overload Voltage	50V	100V
RTC (ppm/°C)	± 250	± 200
Resistance Range		
F(± 1%) E-96, E-24	10Ω - 1MΩ	1Ω - 1MΩ
G(± 2%) E-24	10Ω - 1MΩ	1Ω - 1MΩ
J(± 5%) E-24	10Ω - 1MΩ	1Ω - 1MΩ
Jumper Rated Current	1A	1A
Jumper Resistance Value	<0.05Ω	<0.05Ω

DIMENSIONS



Type	DIMENSIONS (Millimeters)							
	No of Resistors	A	B	C	D	E	F	G
YCN 10	2	0.33±0.1	1.0±0.05	0.65±0.05	1.0±0.10	0.35±0.1	0.15±0.1	0.15±0.1
	4		2.0±0.1					
YCN 16	2		1.6±0.2	0.8±0.05	1.6±0.2	0.5±0.1	0.3±0.15	0.3±0.15
	4	0.5±0.15	3.2±0.2					

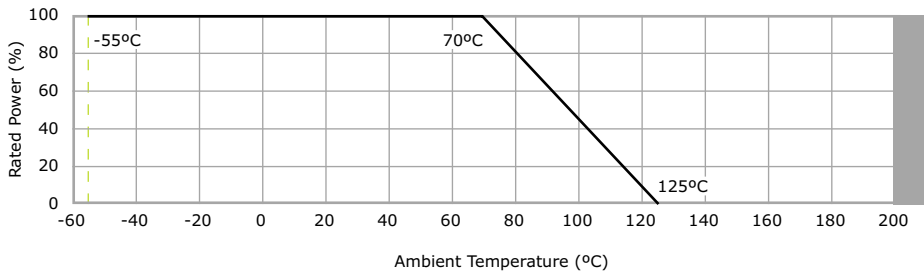
SCHEMATICS CIRCUIT



PERFORMANCE CHARACTERISTICS

Performance Test	Test Method		Specification	
DC Resistance	JIS C 5202 5.1	Zero Ohm Jumper	1% tol	2% & 5% tol
Resistance Temperature Coefficient	JIS C 5202 5.2	NA	Refer to Resistance Coefficient Temperature under ratings table	Refer to Resistance Coefficient Temperature under ratings table
Short Time Overload	JIS C 5202 5.5	≤ 50 mohm	±(1%+0.05 ohm)	±(1%+0.05 ohm)
Insulation Resistance	JIS C 5202 5.6	>10Gohm	>10Gohm	>10Gohm
Dielectric Withstanding Voltage	JIS C 5202 5.7	≤ 50 mohm	±(1%+0.05 ohm)	±(1%+0.05 ohm)
Noise	JIS C 5202 5.9	NA	1-9 ohm : <-10dB (0.32µV/V) 10-99 ohm : <-5dB (0.52µV/V) 100-999 ohm : <0dB (1.0µV/V) 1K-9.9K ohm : <-10dB (3.2µV/V) 10K-99.9K ohm : <-18dB (5.6µV/V) 100K-999.9K ohm : <-20dB (10µV/V) >1M ohm : <-30dB (32µV/V)	1-9 ohm : <-10dB (0.32µV/V) 10-99 ohm : <-5dB (0.52µV/V) 100-999 ohm : <0dB (1.0µV/V) 1K-9.9K ohm : <-10dB (3.2µV/V) 10K-99.9K ohm : <-18dB (5.6µV/V) 100K-999.9K ohm : <-20dB (10µV/V) >1M ohm : <-30dB (32µV/V)
Terminal Strength	JIS C 5202 6.1	≤ 50 mohm		
Bend Test	JIS C 5202 6.1.4(1) Method 2	≤ 50 mohm	±(1%+0.05 ohm)	±(1%+0.05 ohm)
Resistance to Soldering Heat	JIS C 5202 6.10	≤ 50 mohm	±(1%+0.05 ohm)	±(1%+0.05 ohm)
Solderability	JIS C 5202 6.11	95% coverage	≥ 95% coverage	≥ 95% coverage
Resistance to Solvent	JIS C 5202 6.9	≤ 50 mohm	±(1%+0.05 ohm)	±(1%+0.05 ohm)
Low Temperature	JIS C 5202 7.1	≤ 50 mohm	±(1%+0.05 ohm)	±(1%+0.05 ohm)
Low Temperature with Load	JIS C 5202 7.1	≤ 50 mohm	±(1%+0.05 ohm)	±(1%+0.05 ohm)
High Temperature	JIS C 5202 7.2	≤ 100 mohm	±(1%+0.05 ohm)	±(1%+0.05 ohm)
Terminal Shock (Temperature Cycling)	JIS C 5202 7.4	≤ 50 mohm	±(0.5%+0.05 ohm)	±(1%+0.05 ohm)
Resistance to Damp Heat (Humidity)	JIS C 5202 7.5	≤ 100 mohm	±(0.5%+0.05 ohm)	±(2%+0.05 ohm)
Loadlife	JIS C 5202 7.10	≤ 100 mohm	±(1%+0.05 ohm)	±(3%+0.05 ohm)

DERATING CURVE



ORDERING CODE

