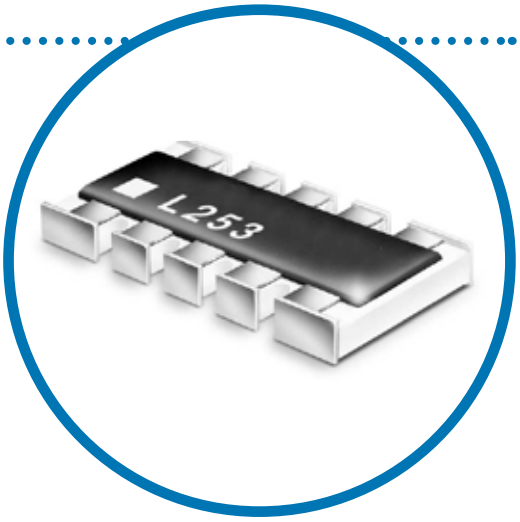
MODEL BCN31

BCN31 Series



- **R/2R Ladder Network**
- **8 Bit, 2512 Size**
- **Thick Film**
- **Leadless Chip Packages**

Features

- **8 bit ladder network in a 10 terminal leadless chip package**
- **Convex termination with square edges and corners**
- **Topside marking for easy identification**
- **Solder plated termination with nickel barrier**

Benefits

- **Saves board space**
- **Reduces cost**
- **Single component reliability**
- **Leadless package offers improved performance**

Applications

- **Termination network in analog to digital and digital to analog conversion circuits**

Electrical [1]

Standard Resistance Range, Ohms	1K to 100K
Standard Resistance Tolerance	±2%
Operating Temperature Range	-40°C to +125°C
Temperature Coefficient of Resistance	±100ppm/°C
Operating Voltage, Maximum	50Vdc or √pr
Insulation Resistance	100 Megohms
Power Rating, Watts at 70°C	25mW per Resistor / 400mW per Package
Ladder Network Accuracy	8 Bits: ±1/2LSB

General Note
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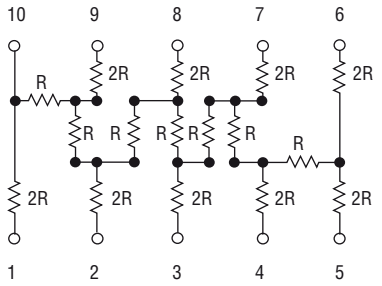
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BCN31 Series

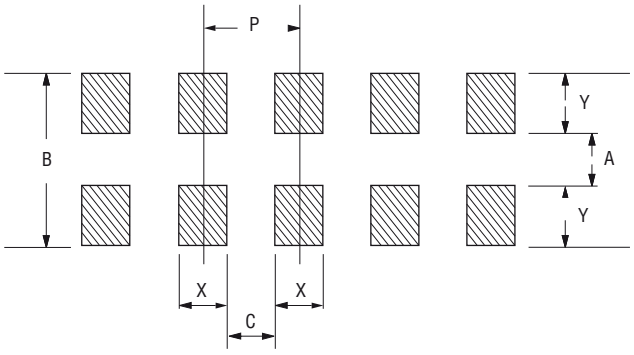
Environmental

Moisture Resistance	1,000 hours at +40°C, 95% R.H. (3.0% ΔR)
High Temperature Operation	1,000 hours at 70°C (3.0% ΔR)
Short Time Overload	2.5 x rated voltage, 5 seconds (2.0% ΔR)
Temperature Cycling	-55°C to +125°C, 5 cycles (1.0% ΔR)
Resistance to Solder Heat	260°C for 10 seconds (1.0% ΔR)
Load Life	1,000 hours at 70°C (3.0% ΔR)

Schematic



Solder Pad Layout (Inch/mm)



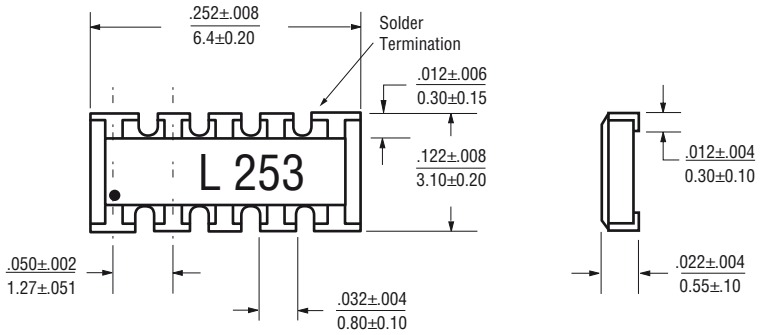
	Wave Solder Process					Re-Flow Solder Process				
P	A	B	C	X	Y	A	B	C	X	Y
.050	.084	.148	.014	.036	.032	.084	.148	.014	.036	.032
1.27	2.10	3.70	0.35	0.90	0.80	2.10	3.70	0.35	0.90	0.80

General Note

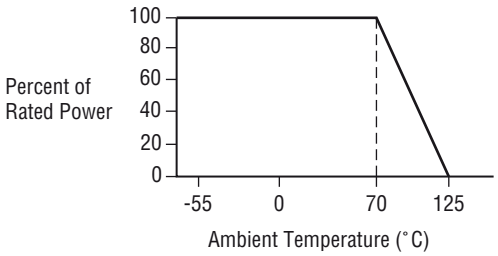
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Outline Dimensions (Inch/mm)



Power Derating Curve



Standard Resistance Values, Ohms

Value (R1/R2)	1K/2K	10K/20K	25K/50K	50K/100K	100K/200K
Code	102	103	253	503	104

Ordering Information

BCN 31 AB L XXX G 7 LF

- Model Series
- Width: 31 = 3.1mm
- Edge Option: AB = Square Edge, Convex Termination
- Circuit Type: L = Ladder
- Resistance Code: 102 = 1K / 2K; 103 = 10K / 20K; 253 = 25K / 50K; 503 = 50K / 100K; 104 = 100K / 200K
- Tolerance: G = ±2%
- Packaging Option: 7 = 7" Tape & Reel, 4K/Reel; 13 = 13" Tape & Reel, 16K/Reel
- LF: RoHS compliant

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