

# MODEL BCN31

## BCN31 Series

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

### Features

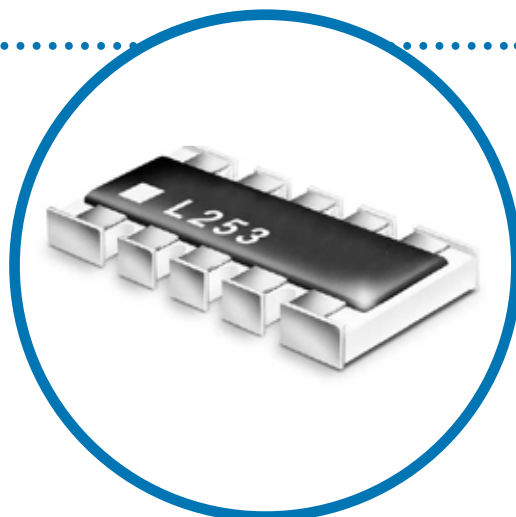
- 8 bit ladder network in a 10 terminal leadless chip package
- Convex termination with square edges and corners
- Topside marking for easy identification
- Solder plated termination with nickel barrier

### 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 <sup>1</sup>

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 $\sqrt{pr}$
Insulation Resistance	100 Megohms
Power Rating, Watts at 70°C	25mW per Resistor / 400mW per Package
Ladder Network Accuracy	8 Bits: ±1/2LSB

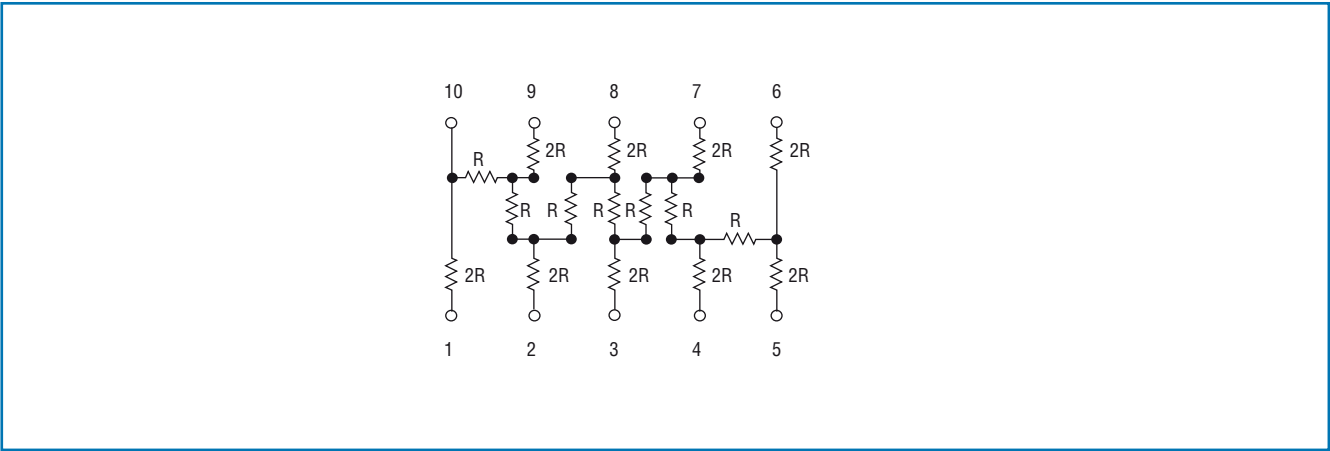
### General Note

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All information is subject to TT electronics' own data and is considered accurate at time of going to print.

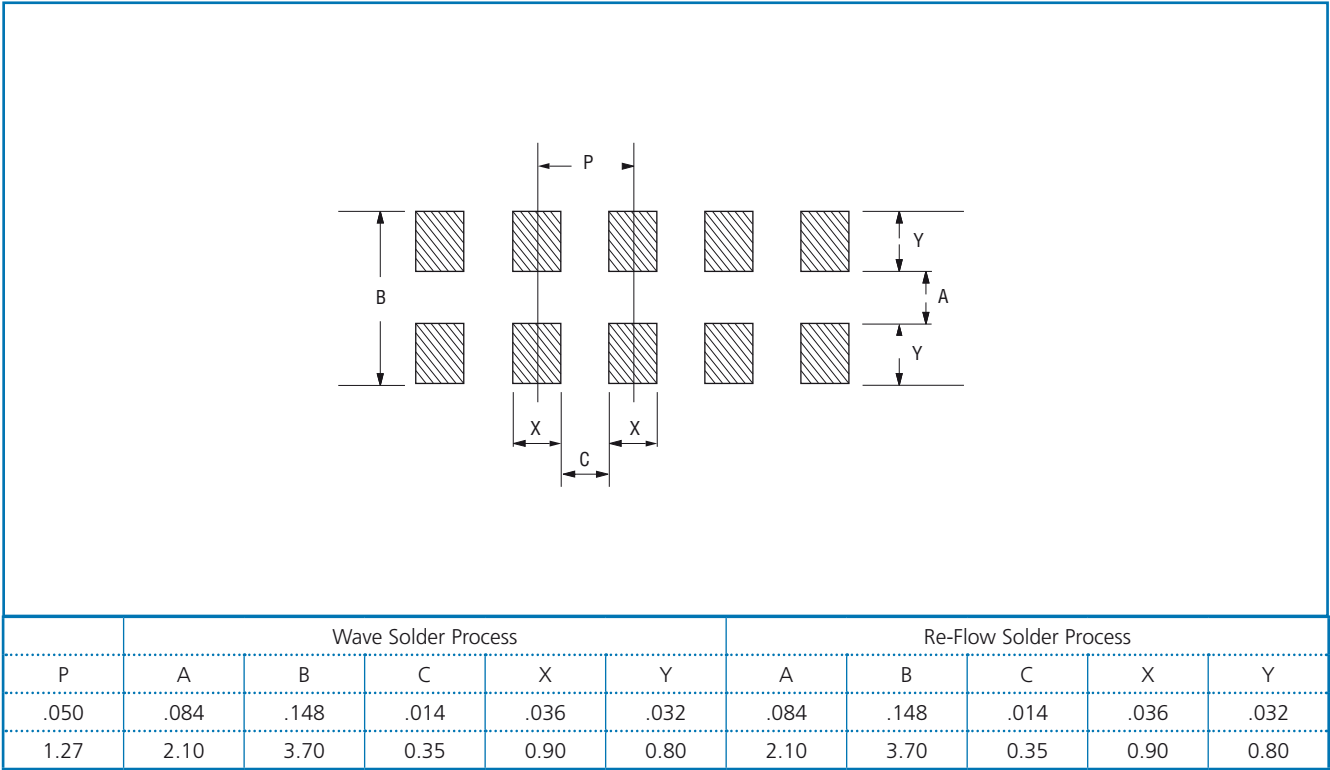
Environmental

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

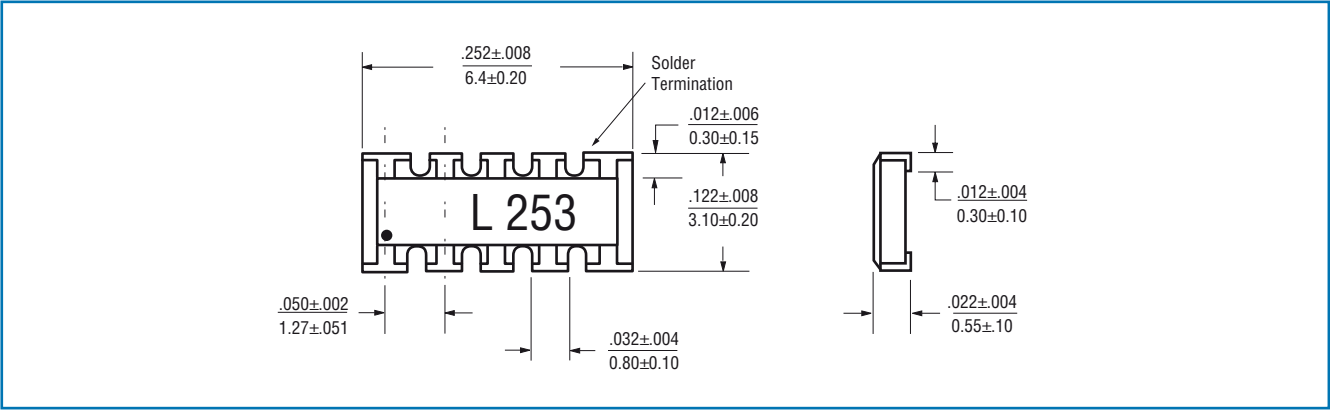


Solder Pad Layout (Inch/mm)

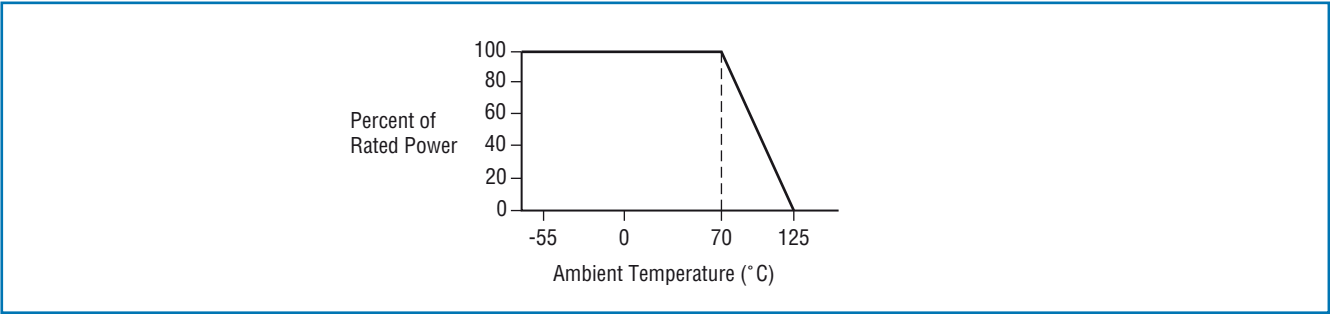


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Outline Dimensions (Inch/mm)



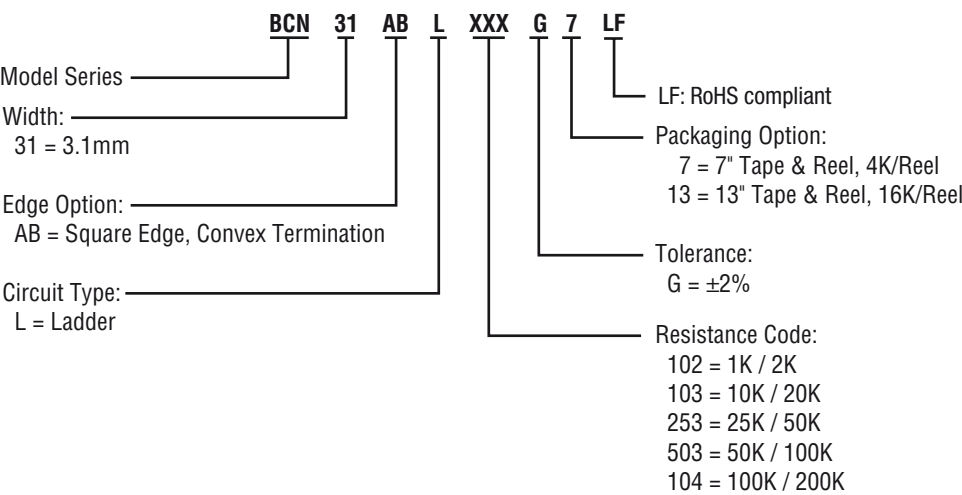
Power Derating Curve



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



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