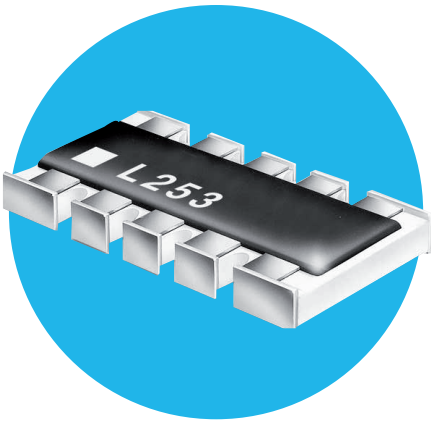
MODEL BCN31 OBSOLETE



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

All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

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

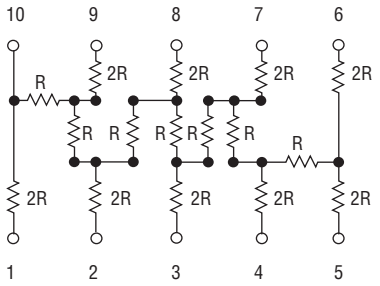
BCN31 Series

OBSOLETE

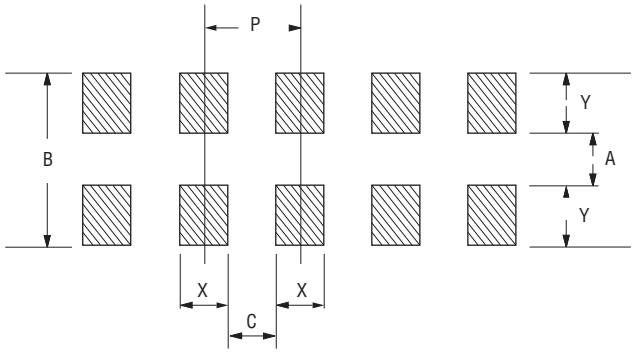
Environmental

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

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

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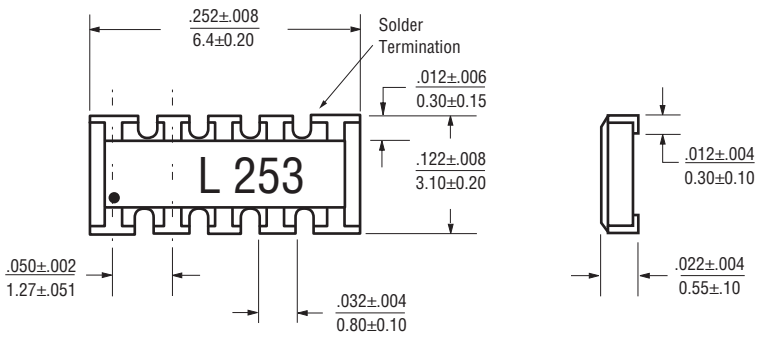
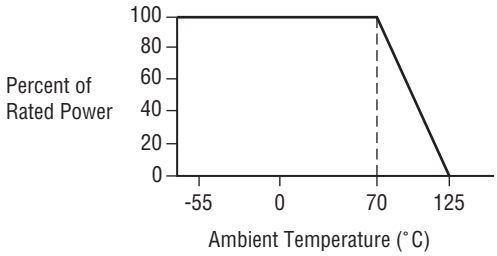
Outline Dimensions (Inch/mm)



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