BCN Series

Features:

- Sulphur resistant version available (tested to ASTM-B809)
- AEC-Q200 (BCN10 and BCN164AB)
- Convex terminations
- Isolated and bussed versions





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

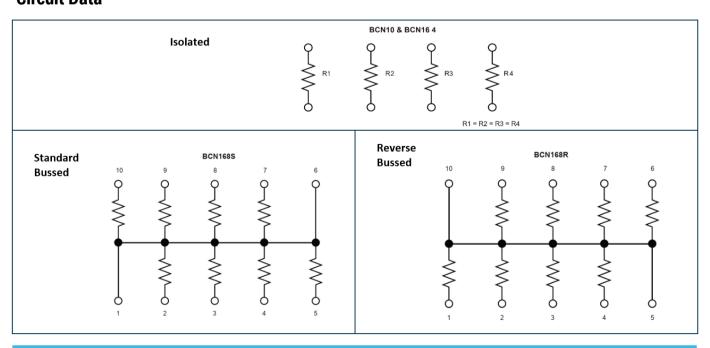
Summary of Types

Туре	Part Number Start	Width (mm)	Resistor Elements	Circuit	Package Size	Scalloped Convex	Square Convex
BCN10	BCN104AB	1	0402 x 4		0804		
BCN164	BCN164A		0603 x 4	Isolated			
BCN164	BCN164AB	1.6	0603 X 4		1206		
D CNI4 CO	BCN168SB	1.6	0003 0	Standard Bussed	1206		
BCN198	BCN168 BCN168RB		0603 x 8	Reverse Bussed			

Electrical Data

		BCN10	BCN164	BCN168	
Resistor power rating at 70°C	mW	6	32		
Package power rating at 70°C	mW		250		
Limiting element voltage	V	25	50	25	
Maximum overload voltage	V	50	100	63	
Resistance range	Ω	10R -	- 1M0	100R – 1M0	
Resistance tolerance	%	1,	1, 5		
TCR	ppm/°C		±200		
Standard values E24 (for 5% tolerance), E96				ance)	
Ambient temperature range	°C		-55 to +155		

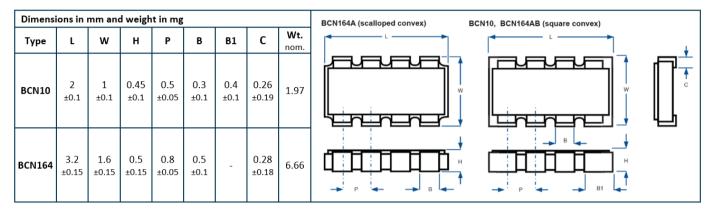
Circuit Data

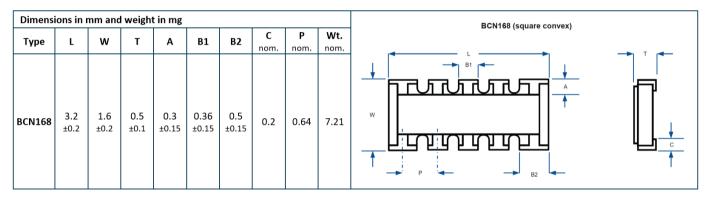


BCN Series

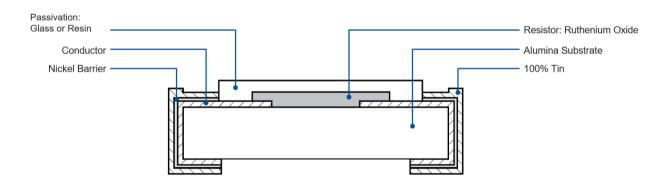


Physical Data





Construction



Marking

BCN parts may be unmarked or marked with ohmic values.

If marked, 5% tolerance parts are marked with three characters (e.g. 102), whilst 1% tolerance parts may be marked with 3 or 4 characters (e.g. 102, 1001, 4991).

07.25





Recommended Solder Pads

Dimen	sions in m	m			L				
Туре	Р	P1	Α	В	х	X1	Υ	L	
BCN10	0.6 ±0.1	0.5	0.5 ±0.1	1.5 ±0.3	0.25 ±0.15	0.45 ±0.1	0.5 ±0.15	2.15 ±0.1	A P P1 B

Dimens	ions in mm			K	 K\\\\\	*			
Туре	Р	Α	В	С	х	Y			<u> </u>
BCN164	0.8	1 ±0.2	3 ±0.15	0.35	0.45	1			Y B

Dimens	Dimensions in mm								1
Туре	Р	Α	В	х	X1	Y			
BCN168	0.64	1.2	2.4	0.3	0.45	0.6	A .	P	B 8

Performance Data

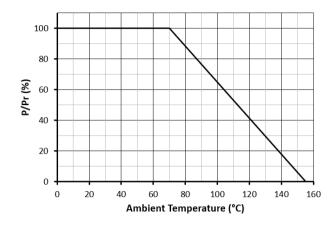
Test	Method		Maximum (+0.1Ω)
Load life	1000 hours, cyclic load at 70°C	±ΔR%	3
Short term overload	2.5 x rated voltage for 5s	±∆R%	2
High temperature operation	1000 hours, 155°C	±∆R%	3
Temperature cycling	5 cycles, -55 to +155°C	±ΔR%	1.5
Moisture resistance	1000 hours, 40°C, 95% RH	±ΔR%	3
Resistance to solder heat	260°C for 10s	±∆R%	1
Sulphur resistance ¹	1000 hours, 50°C, 92% RH, 3-5ppm H ₂ S	±∆R%	0.5

Note 1: Anti-sulphur construction only.





Temperature Derating



Ordering Procedure

Example: BCN164AB102J7S (BCN 1.6mm wide, 4 resistors, isolated circuit, square edge, convex terminations at 1 kilohm ±5%, on a 7" reel, anti-sulphur construction, Pb-free)

B C N	1 6	4	АВ	1 0 2	11	7	S
1	2	3	4 5	6	7	8	9

1 Series	2 Width	3 Resistor Count	4 Circuit	5 Edge	6 Value	7 Tolerance	8 Packaging	9 Construction
BCN	10 =	4	A = Isolated	Blank =	3 digits for E24 at 5%	F = ±1%	7 = 7" reel	Blank =
	1mm	8	S = Standard	Scalloped	4 digits for uniquely	J = ±5%	(standard)	Standard
	16 =		bussed	B = Square	E96 and for all	(Blank for	13 = 13" reel	S = Anti-
	1.6mm		R = Reverse		values at 1%	Jumper)		sulphur
			bussed		JP = Jumper			_

			Va	Packaging Quantity & Tape			
1	2	3	4	5	6	9	8
B C N	1 0	4	Α	В	JP	S (5% tolerance & 7" reel only)	7 = 10,000/reel, 13 = 40,000/reel, Paper tape
B C N	1 6	4	Α		JP	S (1% tolerance & 7" reel only)	
B C N	1 6	4	Α	В	JP	S	7 - 5 000/mal 13 - 30 000/mal Danautona
B C N	1 6	8	S	В			7 = 5,000/reel, 13 = 20,000/reel, Paper tape
B C N	1 6	8	R	В		S (7" reel only)	