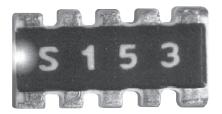


BCN Series

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	1.0	0402 x 4		0804		
BCN164	BCN164A		0603 x 4	0603 x 4 Isolated 0603 x 8 Bussed	1005		
	BCN164AB	1.6					
BCN168	BCN168SB	1.0					
	BCN168RB						

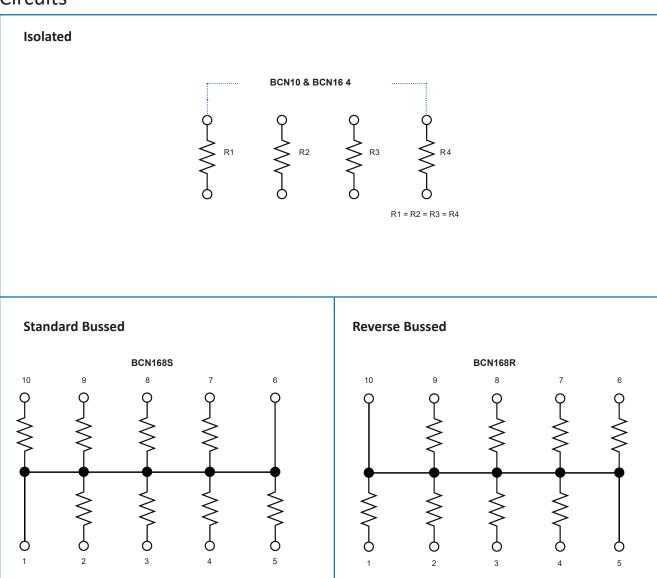
Electrical Data

		BCN10	BCN164	BCN168		
Resistor power rating @70°C	mW	6	32			
Package power rating @70°C	mW					
Limiting element voltage	V	25	50	25		
Maximum overload voltage	V	63	125	63		
Resistance range	ohms	10R – 1M0		100R – 1M0		
Resistance tolerance	%	1, 5		5		
TCR	ppm/°C	±200				
Standard values		E24 (for 5% tolerance), E96 (for 1% tolerance)				
Ambient temperature range	°C	-55 to +155				



BCN Series

Circuits



Environmental Data

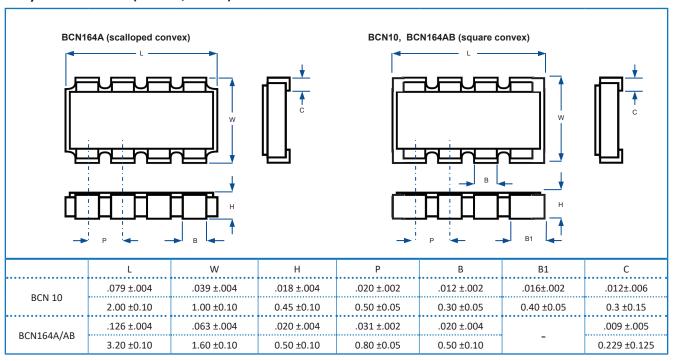
Test	Condition	ΔR% (+0.1Ω)	
Load life	1000 hrs cyclic load @ 70°C	3	
Short term overload	2.5 x rated voltage for 5s	2	
High temperature operation	1000 hrs @ 155°C	3	
Temperature cycling	5 cycles, -55 to +155°C	1	
Moisture resistance	1000 hrs @ 40°C, 95% RH	3	
Resistance to solder heat	260°C for 10s	1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

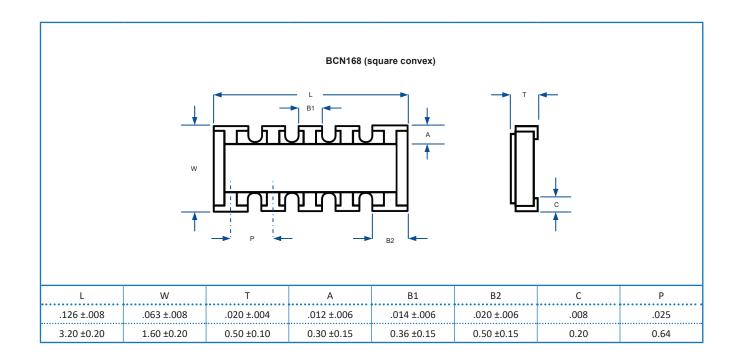
Note 1- Anti-sulphur construction only



BCN Series

Physical Data (Inch /mm)

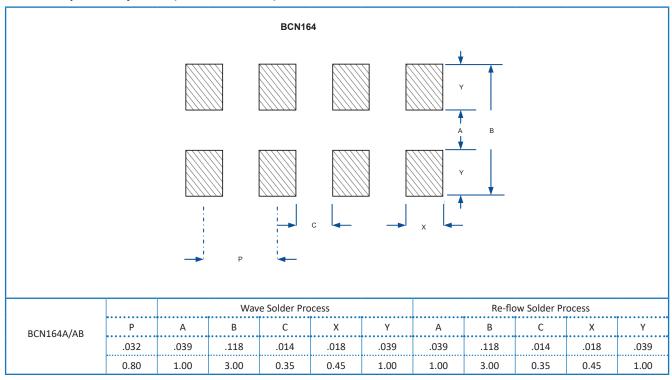


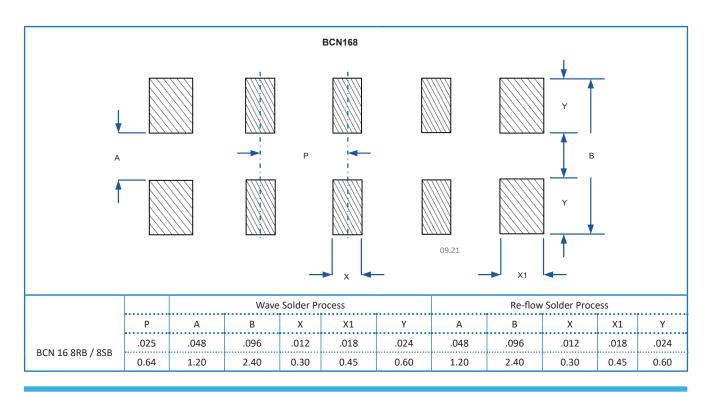




BCN Series

Solder pad layout (Inch / mm)

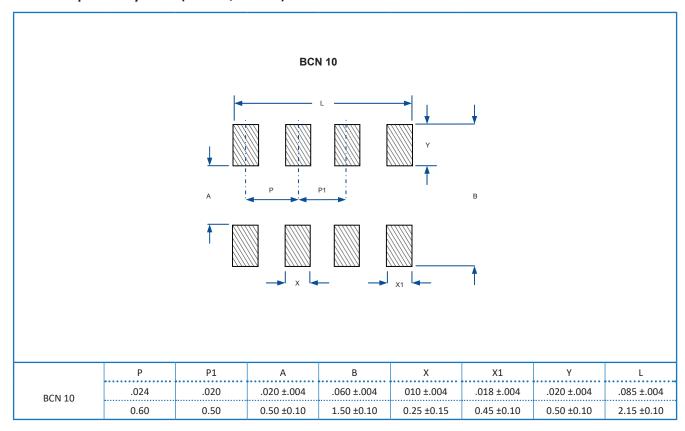




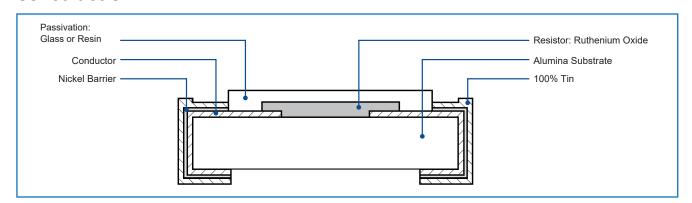


BCN Series

Solder pad layout (Inch / mm)



Construction



Marking

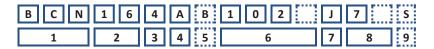
BCN parts may be unmarked or marked with ohmic values. If marked, 5% tolerance parts are marked with three characters (e.g. 102). 1% tolerance parts may be marked with 3 or 4 characters (e.g. 102, 1001, 4991)



BCN Series

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).



1	2	3	4	5	6	7	8	9
Series	Width	Number of Resistors	Circuit	Edge	Value	Tolerance	Packaging	Construction
BCN	10=1.0mm	4	A=Isolated	Blank=	3 digits for E24	F=±1%	7=7" reel (standard)	Blank=
	16=1.6mm	8	S=Standard	Scalloped	at 5%	J=±5%	13=13" reel	Standard
			bussed	B=Square	4 digits for	(Blank for		S=Anti-sulphur
			R=Reverse bussed		uniquely E96 and for all values at 1%	jumper)		
					JP=Jumper			

Valid Options (1 - 5)	Valid Options (6 & 9)	Packaging Quantity & Tape (8)	
B C N 1 0 4 A B	JP=Jumper, S=Anti-sulphur (5% tolerance & 7" reel only)	7=10,000/reel, 13=40,000/reel, Paper tape	
B C N 1 6 4 A	JP=Jumper, S=Anti-sulphur (1% tolerance & 7" reel only)		
B C N 1 6 4 A B	JP=Jumper, S=Anti-sulphur	7 5000/ 140 20 000/ 15	
B C N 1 6 8 S B		7=5000/reel, 13=20,000/reel, Paper tape	
B C N 1 6 8 R B	S=Anti-sulphur (7" reel only)		

Mouser Electronics

Authorized Distributor

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TT Electronics:

BCN164ABJP7 BCN164A822JT BCN168RB332J BCN104AB220J7LF BCN168SB103J13