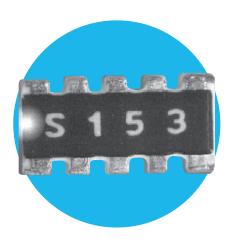
Resistors



Thick Film Chip Arrays

BCN Series

- Sulphur resistant version available (Tested to ASTM-B809)
- AEC-Q200 (BCN10, BCN164AB and BCN4D)
- 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		
DCN1C4	BCN164A		0603 x 4	Isolated	1200		
BCN164	BCN164AB	1.6					
BCN168	BCN168SB	1.6	0603 x 8	Bussed			
DCIN108	BCN168RB						
BCN4D	BCN4D	3.1	1206 x 4	Isolated	2112		
BCN31	BCN318SB		1206 x 8	Bussed ¹	2512		
	BCN318RB						

Note 1 – For R/2R ladder circuit see separate BCN31L datasheet

Electrical Data

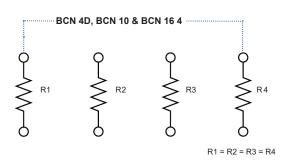
		BCN10	BCN164	BCN168	BCN4D	BCN31
Resistor power rating @70°C	mW	63		32	125	63
Package power rating @70°C	mW		250		500	
Limiting element voltage	V	25	50	25	75	50
Maximum overload voltage	٧	63	125	63	188	125
Resistance range	ohms	10R –	- 1M0	100R – 1M0	10R – 1M0	22R – 1M0
Resistance tolerance	%	1, 5	1, 2, 5	5	1, 5	1, 2, 5
TCR	ppm/°C	±200				
Standard values		E24 preferred, E96 available				
Ambient temperature range	°C	-55 to +155				

BCN Series

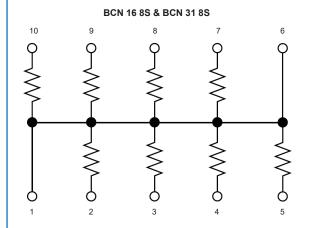


Circuits

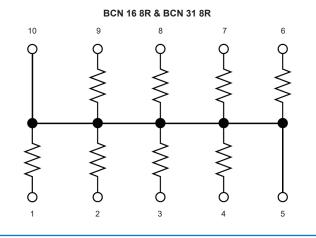
Isolated



Standard Bussed



Reverse Bussed



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

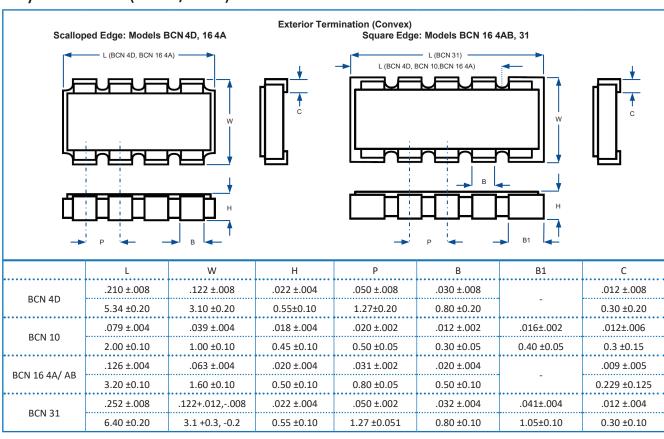
Resistors

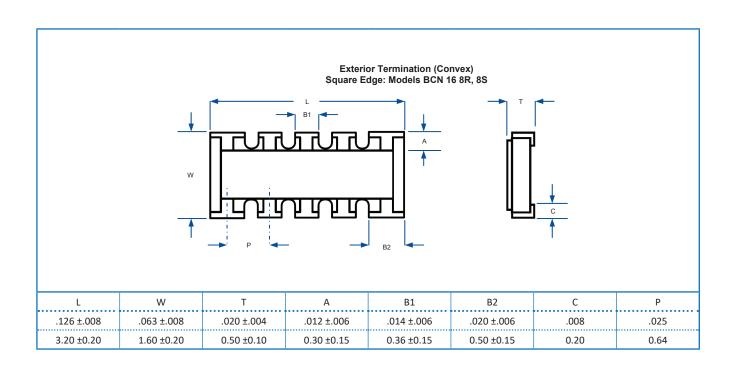
Thick Film Chip Arrays

BCN Series



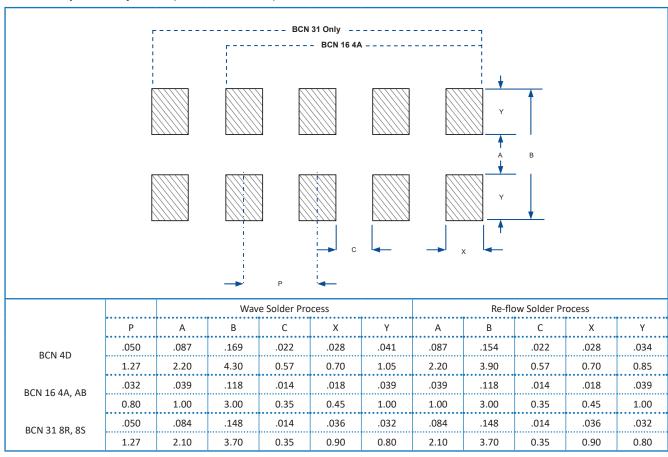
Physical Data (Inch /mm)

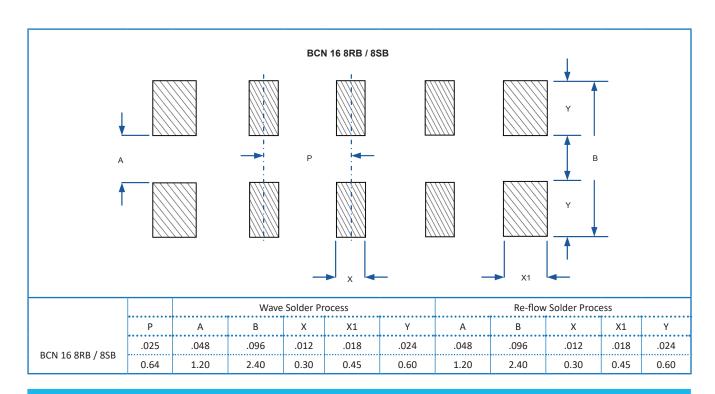




Electronics

Solder pad layout (Inch / mm)





General Note

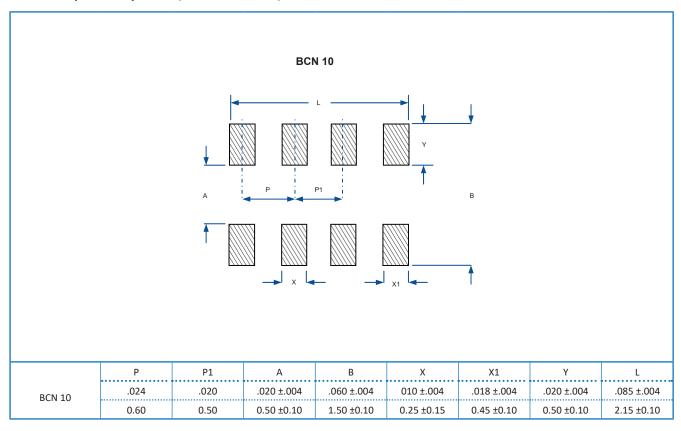
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BI Technologies IRC Welwyn

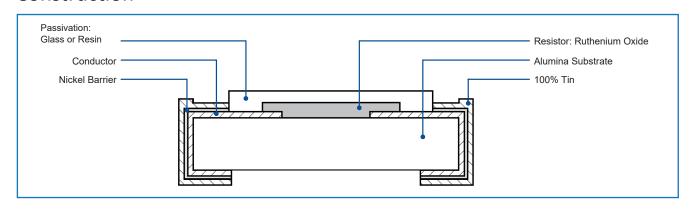
BCN Series



Solder pad layout (Inch / mm)



Construction



Resistors

Thick Film Chip Arrays

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	Blank=	4	A=Isolated	Blank=	3 digits for E24	F=±1%	7=7" reel	Blank=
	3.1mm	8	D=Isolated	Scalloped	at 2% or 5%	G=±2%	13=13" reel	Standard
	10=1.0mm		S=Standard	B=Square	4 digits for	J=±5%		S=Anti-sulphur
	16=1.6mm		bussed		uniquely E96	(Blank for	·	
	21=2.1mm		R=Reverse		and for all	jumper)		
	31=3.1mm		bussed		values at 1%		•	
				•	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	7=10,000/reel, 13=40,000/reel, Paper tape	
B C N 1 6 4 A	JP=Jumper, S=Anti-sulphur		
B C N 1 6 4 A B	JP=Jumper, S=Anti-sulphur	7=5000/reel, 13=20,000/reel, Paper tape	
B C N 1 6 8 S B		7=5000/Teel, 15=20,000/Teel, Paper tape	
B C N 1 6 8 R B	S=Anti-sulphur		
B C N 4 D	JP=Jumper, S=Anti-sulphur		
B C N 3 1 8 S B		7=4000/reel, 13=16,000/reel, Plastic tape	
B C N 3 1 8 R B			

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