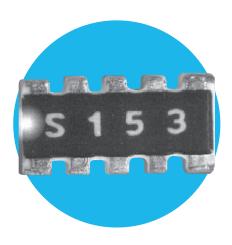
Resistors



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		
DCNI4C4	BCN164A 0503 v	0603 x 4	Isolated				
BCN164	BCN164AB	1.6			1206		
BCN168	BCN168SB	1.6	0603 x 8	Bussed			
BCM108	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

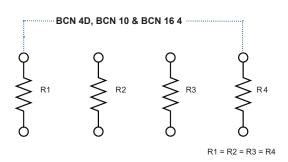
		BCN10	BCN164	BCN168	BCN4D	BCN31	
Resistor power rating @70°C	mW	63		32	125	63	
Package power rating @70°C	mW		250		500		
Limiting element voltage	V	25	50	25	75	50	
Maximum overload voltage	V	63	125	63	188	125	
Resistance range	ohms	10R –	· 1M0	100R – 1M0	10R – 1M0	22R – 1M0	
Resistance tolerance	%	1, 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

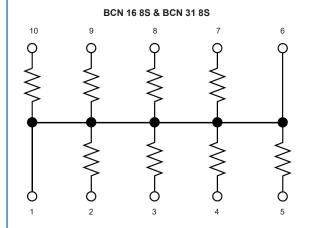


Circuits

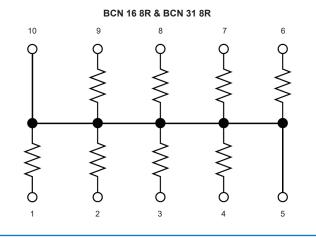
Isolated



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	ohur resistance ¹ 1000 hrs @ 50°C, 92% RH, 3-5ppm H ₂ S		

Note 1- Anti-sulphur construction only

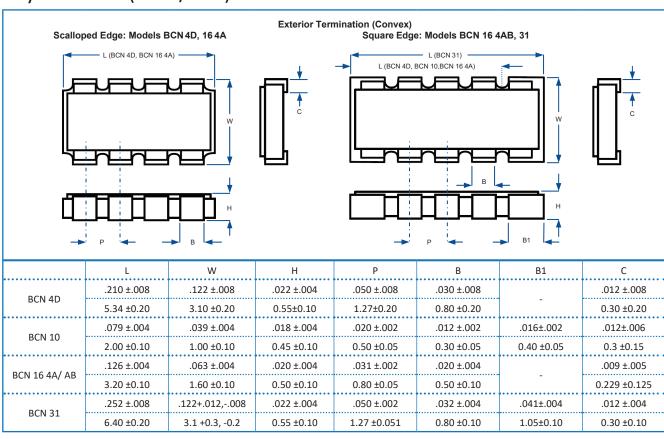
Resistors

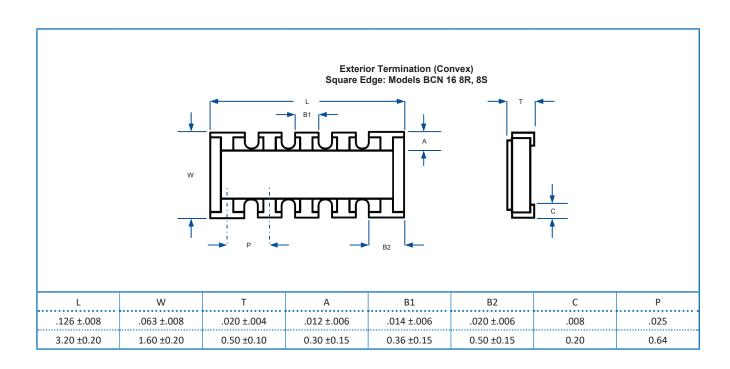
Thick Film Chip Arrays

BCN Series



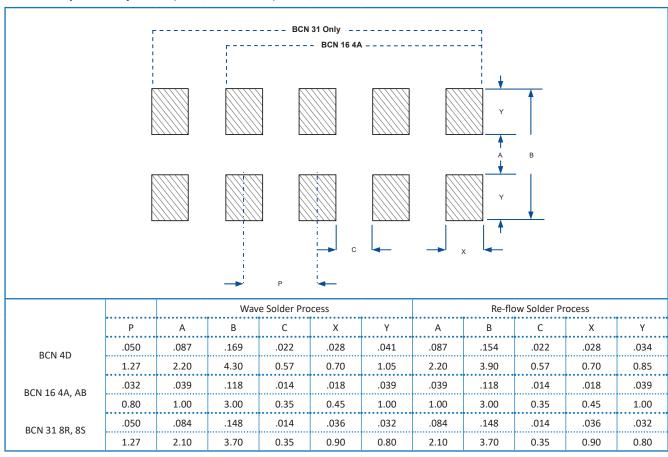
Physical Data (Inch /mm)

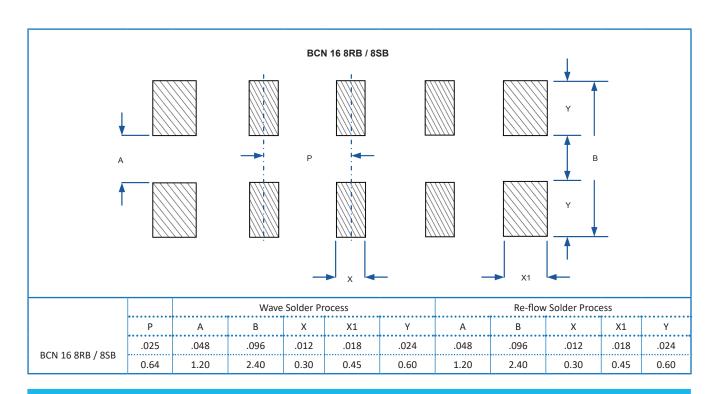




Electronics

Solder pad layout (Inch / mm)





General Note

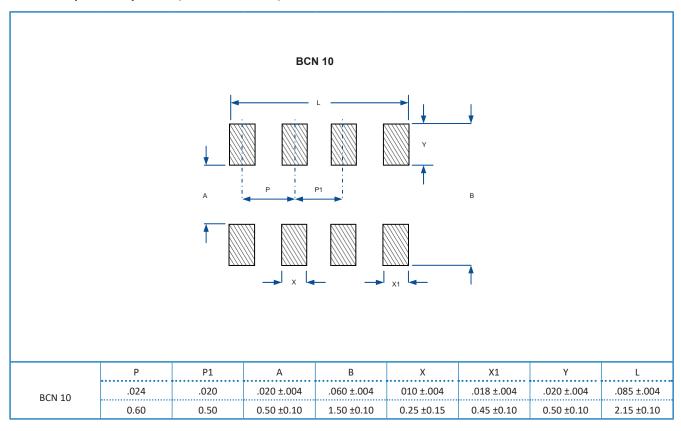
TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

BI Technologies IRC Welwyn

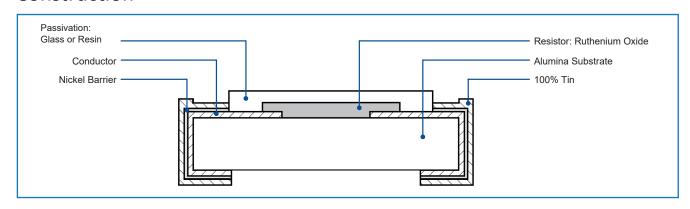
BCN Series



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			

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Resistor Networks & Arrays category:

Click to view products by TT Electronics manufacturer:

Other Similar products are found below:

M8340105K1002FGD03 M8340105K3301JCD03 M8340106M2002GCD03 M8340107K1471FGD03 M8340107K2002GCD03 M8340107K2261FGD03 M8340107M1501GGD03 M8340108K1001FCD03 M8340108K2402GGD03 M8340108K3240FGD03 M8340108K4991FGD03 M8340108K6192FGD03 M8340109K2872FCD03 M8340109M4701GCD03 M8340109MA010GHD03 EXB-24N121JX EXB-24N330JX EXB-24N470JX 744C083101JTR EXB-U14360JX EXB-U18390JX 744C083270JTR 745C102472JP 767161104G MDP1603100KGE04 770101223 ACAS06S0830339P100 ACAS06S0830343P100 ACAS06S0830344P100 RM2012A-102/104-PBVW10 RM2012A-102503-PBVW10 8B472TR4 268-15K ACAS06S0830341P100 ACAS06S0830342P100 ACAS06S0830345P100 EXB-U14470JX EXB-U18330JX 266-10K M8340102K1051FBD04 M8340105M1001JCD03 M8340106K4701GGD03 M8340107K1004GGD03 M8340108K1000GGD03 M8340108K1202GGD03 M8340108K3901GGD03 M8340108K4992FGD03 M8340108K5111FGD03 M8340109K2202GCD03 RKC8BD104J