

Fast Facts

GBCN – Green Thick Film Chip Arrays

GBCN is the latest addition to our range of green thick film resistor products. It is essentially a variant of BCN designed using green thick film materials which are completely free of Pb (lead) and its compounds.

This allows the product to be RoHS compliant without relying on exemptions which may be withdrawn in the future.

The part contains an array of four isolated resistor elements in a 1206 footprint. It is ideal for use in pull-up, pull-down, level shift and termination functions in digital circuits and in compact analogue circuits.



Market Segments

- Industrial
- Automotive
- Medical

Applications

- Digital bus bias & termination
- Compact analogue designs
- Process controllers
- Body control modules
- Medical devices

Features

- Free of Pb and its compounds
- RoHS compliant without exemptions
- Four elements in one chip
- Reduced interconnect inductance
- AEC-Q200 qualified

Benefits

- Single component solution leads to reduction in total footprint and faster assembly.
- Complete absence of Pb compounds supports future-proof environmental compliance.

Our Advantage

For circuit designers who need a compact multiple resistor solution we offer GBCN which provides a route to future-proof environmental compliance in which we are leading major competitors as demonstrated in Appendix 1.

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Appendix 1 Competitor Cross Reference

Major competing products of BCN164AB are shown below and do not yet have green versions available:

Manufacturer	Series	Green Version
TT Electronics	BCN164AB	GBCN164AB
KOA	CN1J4T	None
Panasonic	EXBV8	None
Rohm	MNR14	None
Vishay	CRA06	None
Yageo	YC164	None

Appendix 2 – Place in TT Electronics’ Thick film Chip Portfolio

GBCN has the following place in the thick film chip portfolio:

WCR Standard	GWCR Green, standard
HVC High voltage	GHVC Green, high voltage
BCN Array	GBCN Green, array

Appendix 3 Search Keywords

green chip resistor	RoHS compliance	exemption-free
Pb-free	lead-free	green thick film
lead oxide	chip array	