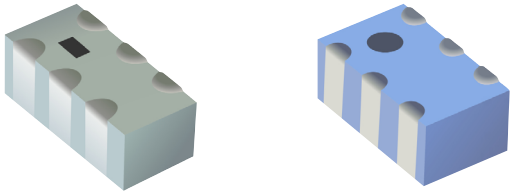
BOURNS®

NEW PRODUCT RELEASE

MAGNETICS



Bourns Releases Four New LTCC (Low-Temperature Co-Fired Ceramic) Balun Models

FBN1606N360D6, FBN2009N090D6, FBN2009N185D6, and FBN2009N230D6

Riverside, California - July 24, 2026 – Bourns® FBN1606N360D6, FBN2009N090D6, FBN2009N185D6, and FBN2009N230D6 LTCC (low-temperature co-fired ceramic) Balun models deliver seamless balanced-to-unbalanced signal conversion and impedance transformation for advanced RF circuits. By leveraging advanced multilayer LTCC technology, these components integrate inductors, capacitors, and other passive elements into a single monolithic structure. This construction supports compact, reliable solutions for microelectronic applications while enabling wireless communication and positioning front-end designs.

Characteristics:

Model	Size (mm)	Frequency Range (MHz)	Insertion Loss @25 °C Max. (dB)	Phase Difference (°)	Amplitude Difference Max. (dB)	Impedance (Unbalanced / Balanced) (Ω)	Operating Temperature (°C)
FBN1606N360D6	1.6 x 0.8 x 0.6	3300 - 3900	1.0	180 ±15	1.2	50 : 100	-40 to +85
FBN2009N090D6	2 x 1.25 x 0.9	800 - 1000	1.3	180 ±10	2.0	50 : 50	
FBN2009N185D6	2 x 1.25 x 0.95	1700 - 2000	1.0	180 ±10	2.0	50 : 100	
FBN2009N230D6	2 x 1.25 x 0.9	1500 - 3100	1.0	180 ±10	2.0	50 : 100	

For additional product details, visit the Bourns website at www.bourns.com or contact Bourns Customer Service/Inside Sales.

Features

- Low-temperature co-fired ceramic (LTCC) multilayer ceramic construction
- Compact package sizes
- Frequency range: 800 to 3900 MHz
- RoHS compliant*

Applications

- 5G infrastructure
- IoT devices
- LTE infrastructure and devices
- GPS for multi-frequency precision tracking

Additional Information

DATA SHEET | PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

** RoHS Directive 2015/863, Mar 31, 2015 and Annex.*

IC26114

Americas: Tel +1-951 781-5500 americus@bourns.com

EMEA: Tel +36 88 885 877 eurocus@bourns.com

Asia-Pacific: Tel +886-2 256 241 17 asiacus@bourns.com

Mexico: Tel +52 614 478 0400 mexicus@bourns.com