

## BSHQ Series



BSHQ Series is a type of ceramic chip inductor produced using thin film technology designed for miniaturized devices, featuring low inductance and high precision. It is suitable for high frequency applications

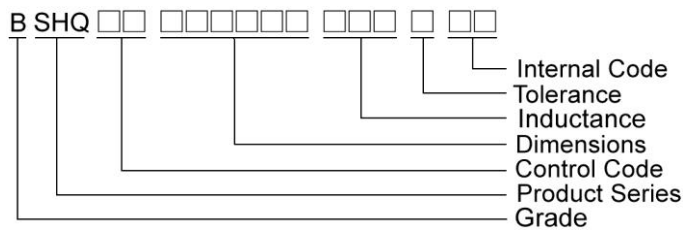
### Features

- High frequency application
- Miniaturization
- Tight tolerance

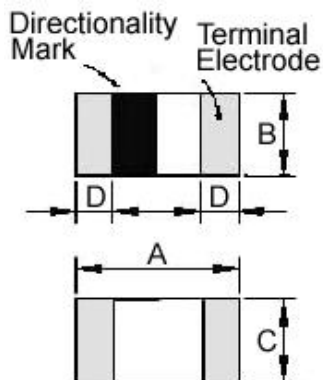
### Applications

- RF matching circuit requiring Q value
- Bluetooth, WLAN, UWB, digital TV tuners and high-frequency circuit and module

### Product Identification



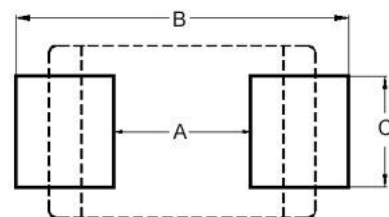
### Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D
BSHQ00040202	0.4±0.02	0.2±0.02	0.2±0.02	0.095±0.025

### Recommended Pattern



Dimensions in mm

TYPE	A	B	C
BSHQ00040202	0.16~0.2	0.4 ~ 0.56	0.2~0.23

# SMD Ceramic Multilayer Chip Inductors – BSHQ Series

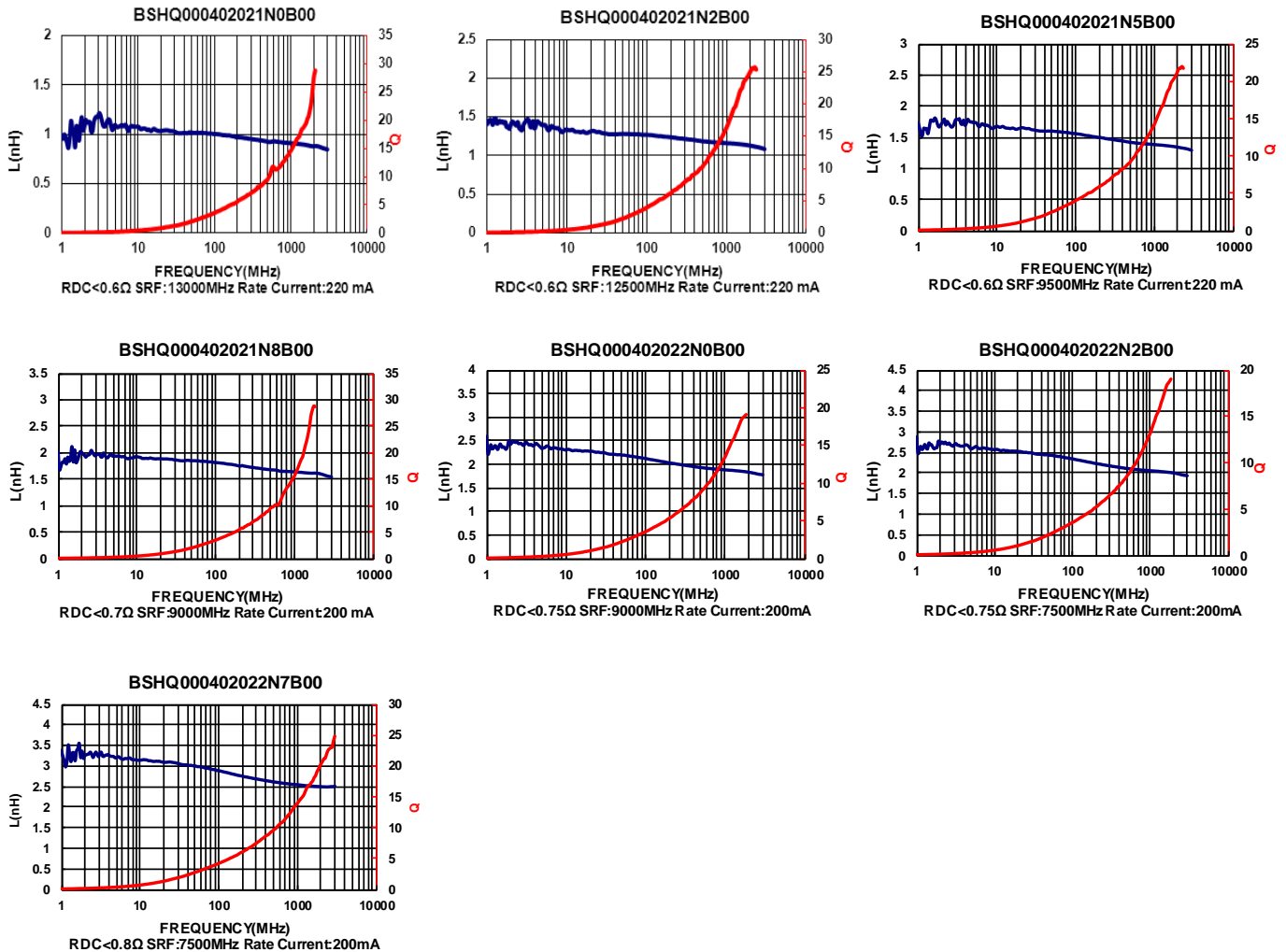
## Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	Rate Current (mA) Max
BSHQ000402021N0B00	1.0	±0.1nH	8	500	13000	0.60	220
BSHQ000402021N2B00	1.2	±0.1nH	8	500	12500	0.60	220
BSHQ000402021N5B00	1.5	±0.1nH	8	500	9500	0.60	220
BSHQ000402021N8B00	1.8	±0.1nH	8	500	9000	0.70	200
BSHQ000402022N0B00	2.0	±0.1nH	8	500	9000	0.75	200
BSHQ000402022N2B00	2.2	±0.1nH	8	500	7500	0.75	200
BSHQ000402022N7B00	2.7	±0.1nH	8	500	7500	0.80	200

**Note:** When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , S=±0.3nH

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Rate Current : Applied the current to coils, the temperature rise shall not be more than 25°C
- Residual impedance of short chip : 0.11nH
- Measure Equipment :  
 L & Q : Agilent E4991A+Agilent 16197A  
 SRF : Agilent E4991A or HP19196C  
 RDC : HP4338B or CHEN HWA 502

## Test Instruments : Agilent E4991A Material/Impedance Analyzer



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.