

# DATA SHEET

## INDUCTOR

Chip Inductors

BSCY Series

RoHS compliant & Halogen Free



## SMD Multilayer Ferrite Chip Inductors - BSCY Series

### BSCY Series



The SMD multi-layered ferrite chip inductors provide a cost-effective solution for densely packed PC board designs. BSCY series comes in 3 sizes and is suitable for low frequency applications.

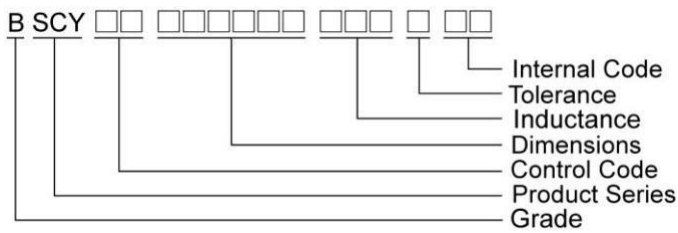
#### Features

- RoHS compliant
- High mounting density of compact circuit due to crosstalk elimination that results from a closed magnetic flux in a ferrite material
- Suitable for flow and re-flow soldering
- Available in 3 sizes

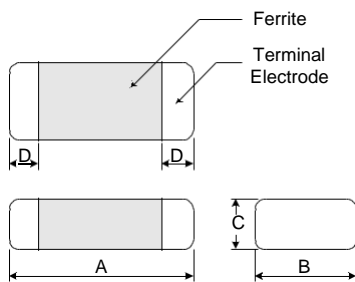
#### Applications

- Personal computers, HDDs, other various electronic devices
- Any portable device where compact size and high mounting densities are required

#### Product Identification



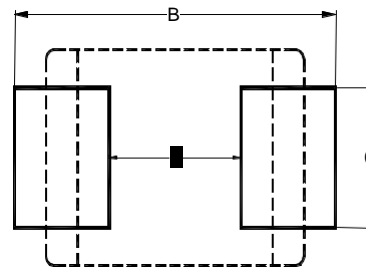
#### Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D
BSCY00160808	1.6±0.2	0.80±0.2	0.80±0.2	0.3±0.2
BSCY00201209	2.0±0.2	1.25±0.2	0.90±0.2	0.5±0.3
BSCY00201212	2.0±0.2	1.25±0.2	1.25±0.2	0.5±0.3

#### Recommended Pattern



Dimensions in mm

TYPE	A	B	C
BSCL00160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
BSCL00201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.4
BSCL00201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2

**SMD Multilayer Ferrite Chip Inductors – BSCY Series**

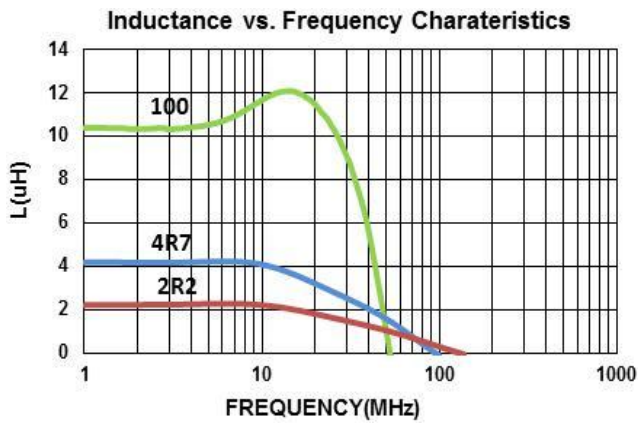
**Electrical Characteristics**

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	Rated Current (mA) Max
BSCY001608082R2 □ CP	2.2	30/20	1	0.20	1000
BSCY001608084R7 □ CP	4.7	30/20	1	0.25	800
BSCY00160808100 □ CP	10	30/20	1	0.90	90

**Note: When ordering, please specify tolerance code. Tolerance : M=±20% , T=±30%**

- Operating temperature range - 40°C ~ 105°C(Including self - temperature rise)
- Rated Current : Applied the current to coils, the temperature rise shall not be more than 30°C
- Measure Equipment :
  - L & Q : HP4291A
  - SRF : Agilent HP8753D/Agilent E4991A
  - RDC : HP4338B or CHEN HWA 502

**Test Instruments :** Agilent E4991A Impedance / Material Analyzer



## SMD Multilayer Ferrite Chip Inductors – BSCY Series

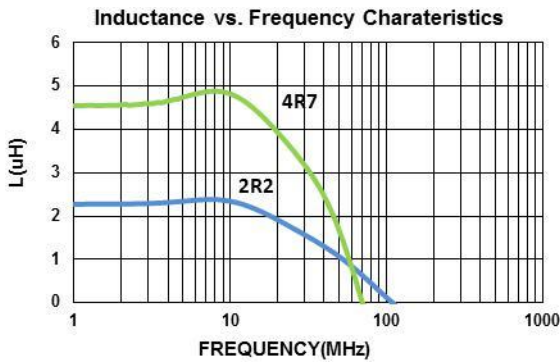
### Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	Rated Current (mA) Max
BSCY002012092R2 □ CP	2.2	30/20	1	0.10	2000
BSCY002012094R7 □ CP	4.7	30/20	1	0.30	900

**Note: When ordering, please specify tolerance code. Tolerance : M=±20% , T=±30%**

- Operating temperature range - 40°C ~ 105°C(Including self - temperature rise)
- Rated Current : Applied the current to coils, the temperature rise shall not be more than 30°C
- Measure Equipment :  
 L & Q : HP4291A  
 SRF : Agilent HP8753D/Agilent E4991A  
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### Test Instruments : Agilent E4991A Impedance / Material Analyzer



## SMD Multilayer Ferrite Chip Inductors – BSCY Series

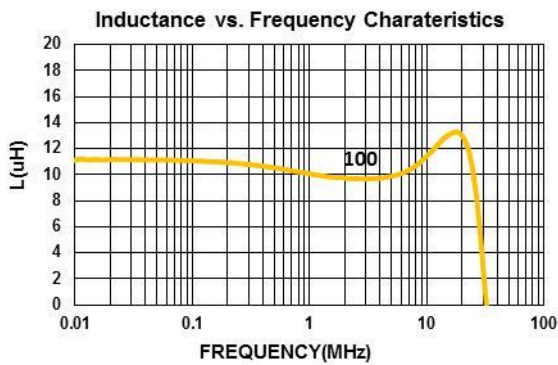
### Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	Rated Current (mA) Max
BSCY00201212100 □ CP	10	30/20	1	0.50	400

**Note: When ordering, please specify tolerance code. Tolerance : M=±20% , T=±30%**

- Operating temperature range - 40°C ~ 105°C(Including self - temperature rise)
- Rated Current : Applied the current to coils, the temperature rise shall not be more than 30°C
- Measure Equipment :
  - L & Q : HP4291A
  - SRF : Agilent HP8753D/Agilent E4991A
  - RDC : HP4338B or CHEN HWA 502

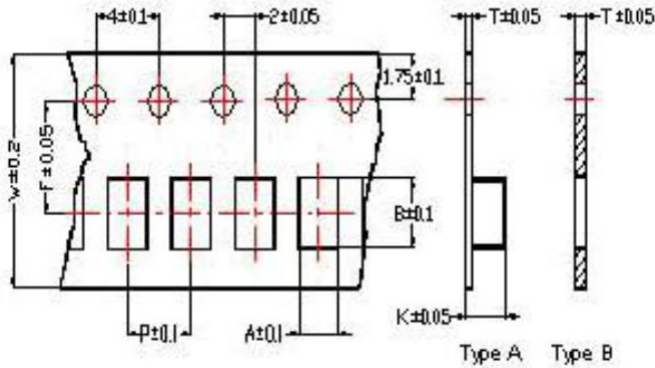
### Test Instruments : Agilent E4991A Impedance / Material Analyzer



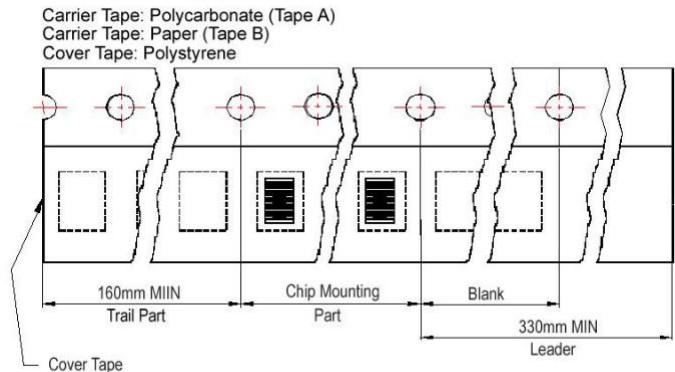
## SMD Multilayer Ferrite Chip Inductors - BSCY Series

### Packaging Specifications

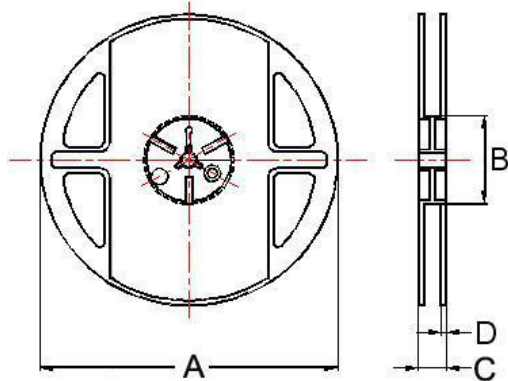
#### Tape Dimensions



#### Tape Material



#### Reel Dimensions



#### Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity PCS / Reel
	A	B	T	W	P	F	K	Tape	A	B	C	D	
BSCY00160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
BSCY00201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
BSCY00201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	1.5	3000