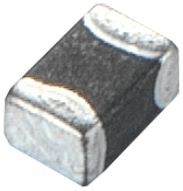
SMD Multilayer Ferrite Chip Inductors

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.

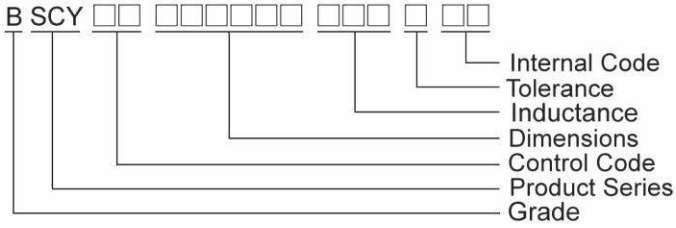
Features

- 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

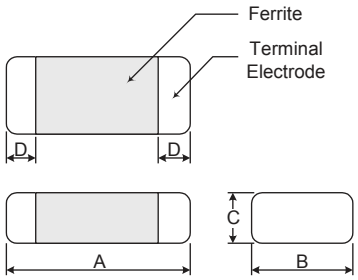
Applications

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

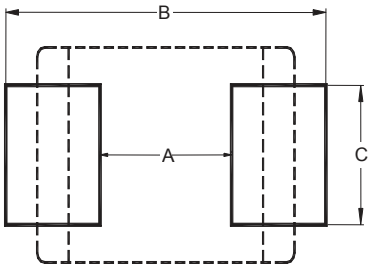
Product Identification



Shape and Dimensions



Recommended Pattern



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

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

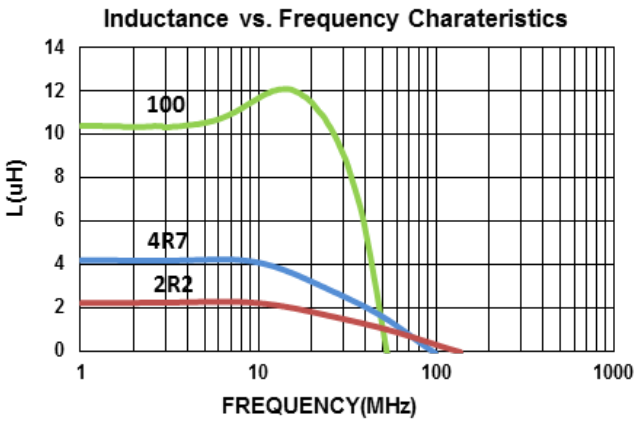
Electrical Characteristics

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

Test Instruments： Agilent E4991A Impedance / Material Analyzer



Electrical Characteristics

Part Number	Inductance (µH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) Max	Rated Current (mA) Max
BSCY002012091R0☐CP	1.0	30 / 20	1	0.06	2200
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%

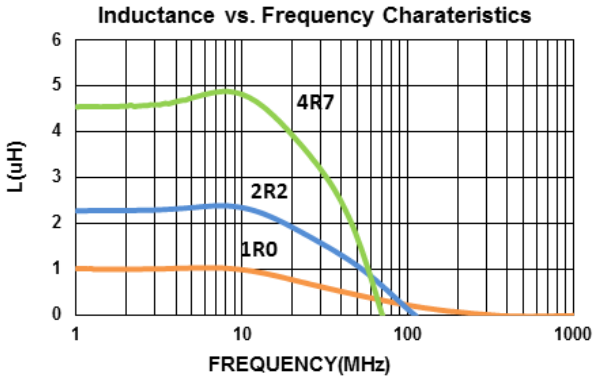
- Operating temperature range - 40℃ ~ 105℃(Including self - temperature rise)
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

  L & Q：HP4291A

  SRF：Agilent HP8753D/Agilent E4991A

  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer



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%

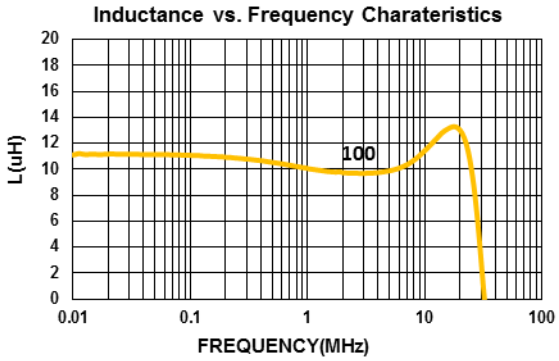
- Operating temperature range - 40℃ ~ 105℃(Including self - temperature rise)
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

  L & Q：HP4291A

  SRF：Agilent HP8753D/Agilent E4991A

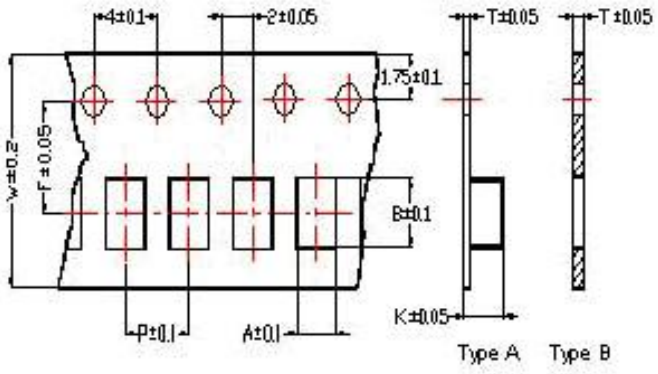
  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer

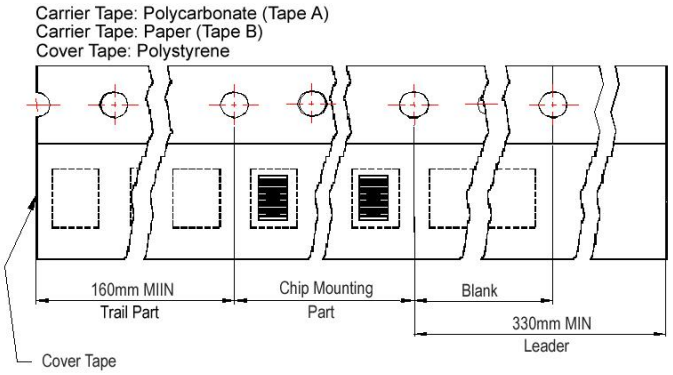


Packaging Specifications

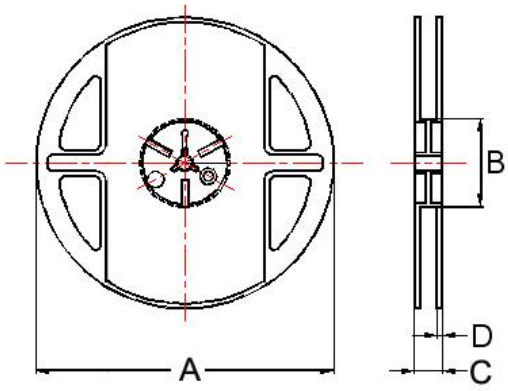
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / Reel
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

For More Information:
Americas - prodinfo_power_americas@yageo.com | **Europe -** prodinfo_power_emea@yageo.com | **Asia -** prodinfo_power_asia@yageo.com