

BSCH Series



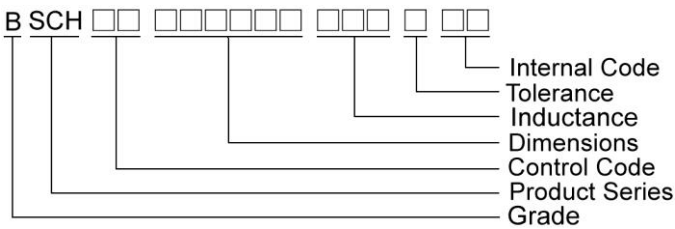
Features

- ROHS Compliant
- Excellent Q factor and SRF characteristics
- Cost Effective
- Small size of 1005 is suitable for small portable equipment.
- Low DCR

Applications

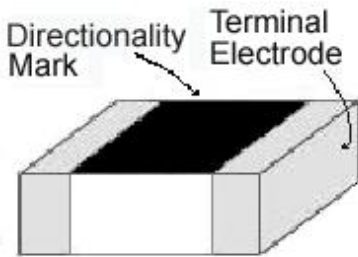
- RF Resonance and Impedance Matching Circuit
- RF and wireless communication
- Information technology equipment, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems.
- Use in L-C filter configurations

Product Identification

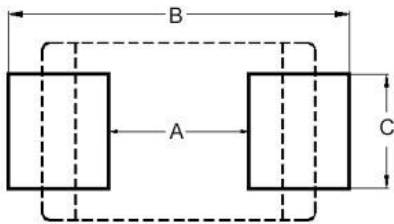


Shapes and Dimensions

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Recommended Pattern



Dimensions in mm				
TYPE	A	B	C	D
BSCH00100505	1.0±0.10	0.5±0.10	0.5±0.10	0.25±0.10

Dimensions in mm			
TYPE	A	B	C
BSCH00100505	0.4	1.2 ~ 1.4	0.5

SMD Multilayer Ceramic Chip Inductors - BSCH Series

Electrical Characteristics

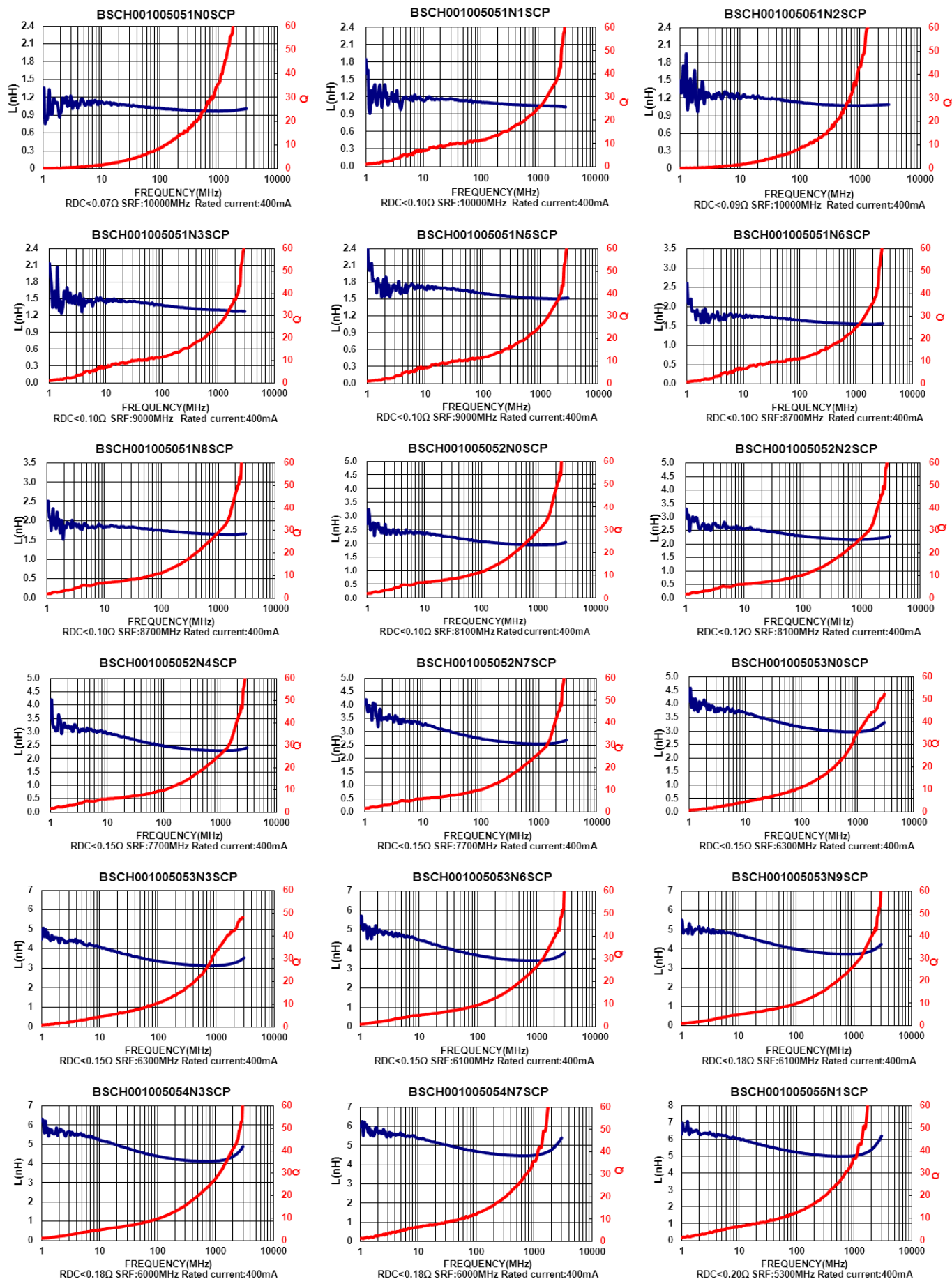
Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Typ.	RDC (Ω) Max	Rated Current (mA) Max
BSCH001005051N0□CP	1.0	±0.2nH/±0.3nH	100	8	10000	0.07	400
BSCH001005051N1□CP	1.1	±0.3nH	100	8	10000	0.10	400
BSCH001005051N2□CP	1.2	±0.2nH/±0.3nH	100	8	10000	0.09	400
BSCH001005051N3□CP	1.3	±0.3nH	100	8	9000	0.10	400
BSCH001005051N5□CP	1.5	±0.3nH	100	8	9000	0.10	400
BSCH001005051N6□CP	1.6	±0.3nH	100	8	8700	0.10	400
BSCH001005051N8□CP	1.8	±0.3nH	100	8	8700	0.10	400
BSCH001005052N0□CP	2.0	±0.3nH	100	8	8100	0.10	400
BSCH001005052N2□CP	2.2	±0.3nH	100	8	8100	0.12	400
BSCH001005052N4□CP	2.4	±0.3nH	100	8	7700	0.15	400
BSCH001005052N7□CP	2.7	±0.3nH	100	8	7700	0.15	400
BSCH001005053N0□CP	3.0	±0.3nH	100	8	6300	0.15	400
BSCH001005053N3□CP	3.3	±0.3nH	100	8	6300	0.15	400
BSCH001005053N6□CP	3.6	±0.3nH	100	8	6100	0.15	400
BSCH001005053N9□CP	3.9	±0.3nH	100	8	6100	0.18	400
BSCH001005054N3□CP	4.3	±0.3nH	100	8	6000	0.18	400
BSCH001005054N7□CP	4.7	±0.3nH	100	8	6000	0.18	400
BSCH001005055N1□CP	5.1	±0.3nH	100	8	5300	0.20	400
BSCH001005055N6□CP	5.6	±0.3nH	100	8	5100	0.20	400
BSCH001005056N2□CP	6.2	±0.3nH/5/10	100	8	4500	0.22	400
BSCH001005056N8□CP	6.8	5 / 10	100	8	4550	0.24	400
BSCH001005057N5□CP	7.5	5 / 10	100	8	4200	0.24	300
BSCH001005058N2□CP	8.2	5 / 10	100	8	4100	0.24	300
BSCH001005059N1□CP	9.1	5 / 10	100	8	3900	0.26	300
BSCH0010050510N□CP	10	5 / 10	100	8	3900	0.26	300
BSCH0010050512N□CP	12	5 / 10	100	8	3000	0.28	300
BSCH0010050515N□CP	15	5 / 10	100	8	2500	0.32	300
BSCH0010050518N□CP	18	5 / 10	100	8	2200	0.36	300
BSCH0010050522N□CP	22	5 / 10	100	8	1900	0.42	300
BSCH0010050527N□CP	27	5 / 10	100	8	1700	0.46	300
BSCH0010050533N□CP	33	5 / 10	100	8	1600	0.58	200
BSCH0010050539N□CP	39	5 / 10	100	8	1200	0.65	200
BSCH0010050547N□CP	47	5 / 10	100	8	1000	0.72	200
BSCH0010050556N□CP	56	5 / 10	100	8	800	0.82	200
BSCH0010050568N□CP	68	5 / 10	100	8	800	0.92	180
BSCH0010050582N□CP	82	5 / 10	100	8	700	1.20	150

Note: When ordering, please specify tolerance code. Tolerance : C=±0.2nH , S=±0.3nH , J=±5% , K=±10%

- 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 30°C
- Residual impedance of short chip : 0nH
- Measure Equipment :
L & Q : Agilent E4991A+Agilent 16197A
SRF : HP8753D
RDC : HP4338B or CHEN HWA 502

SMD Multilayer Ceramic Chip Inductors - BSCH Series

Test Instruments : Agilent E4991A Material/Impedance Analyzer



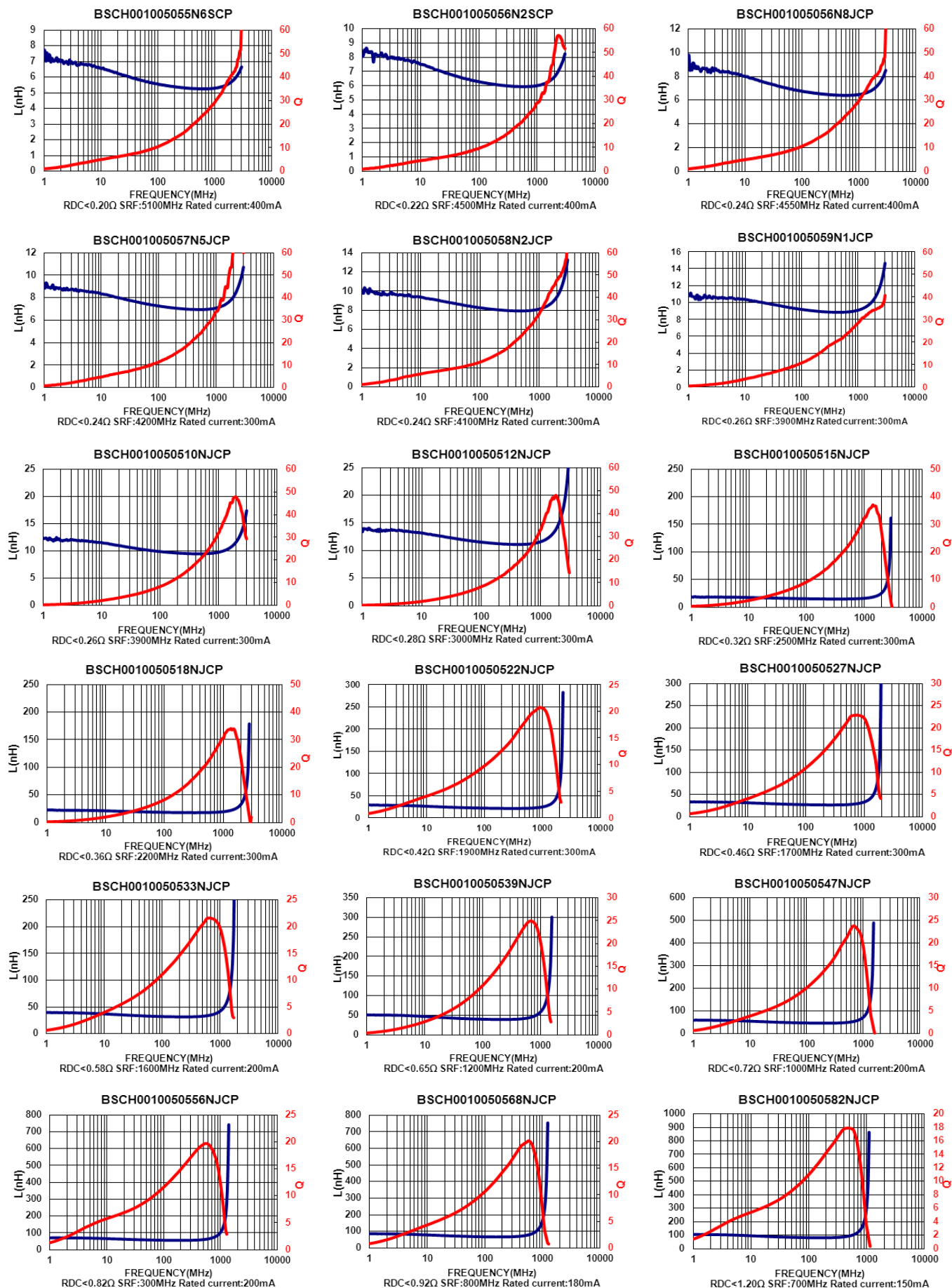
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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



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SMD Multilayer Ceramic Chip Inductors - BSCH Series

Test Instruments : Agilent E4991A Material/Impedance Analyzer

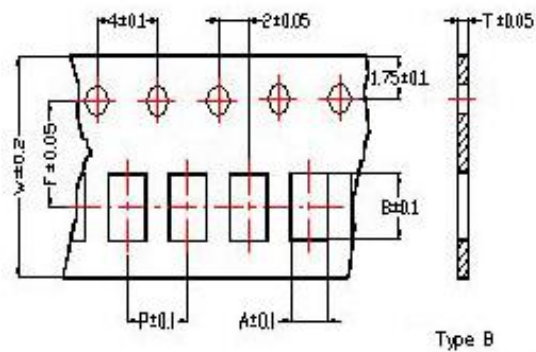


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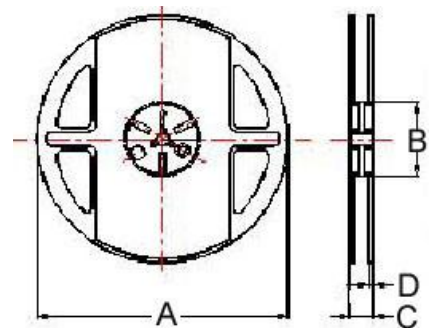


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Packaging Specifications



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Recommended Pattern			Quantity PCS / Reel
	A	B	T	W	P	F	Tape	A	B	C	D	A	B	C	
BSCH00100505	0.65	1.15	0.60	8	2	3.5	B	178	60	12	1.5	0.4	1.2 ~ 1.4	0.4	10000

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