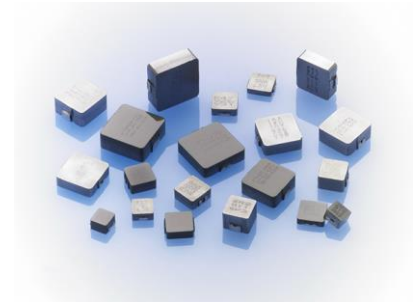
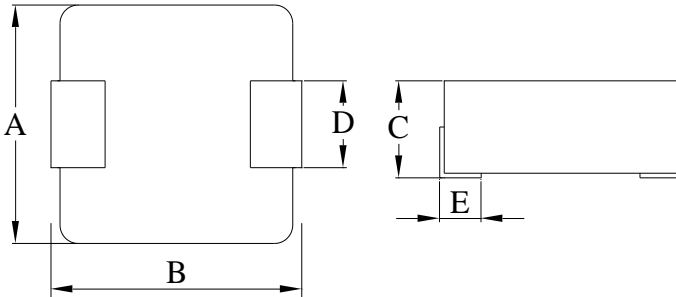


## BCIHF1040B Series

**PRODUCT: Magnetic Shielded Power Inductor**



**PACKAGING DIMENSION: [Unit: mm]**



A	10.5 ± 0.5
B	11.5 ± 1.0
C	4.0 MAX
D	3.0 ± 0.5
E	2.5 ± 0.5

### GENERAL SPECIFICATIONS:

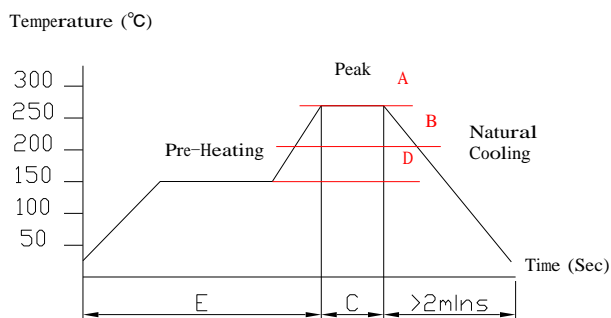
P/N	L0 Inductance μH ±20% @0A	DCR (mΩ)		Heat Rating Current	Saturation Current
		[Typical]	[ Max ]	Idc (Amp)	Isat (Amp)
				Typical	Typical
BCIHF1040B-R19M-NL	0.19	0.875	0.95	40	90
BCIHF1040B-R36M-NL	0.36	1.30	1.40	31.5	60
BCIHF1040B-R56M-NL	0.56	1.70	1.80	27.5	49
BCIHF1040B-1R0M-NL	1.0	3.70	4.10	17.5	36
BCIHF1040B-1R5M-NL	1.5	5.30	5.80	15	27.5
BCIHF1040B-2R2M-NL	2.2	8.20	9.00	12	25.5
BCIHF1040B-3R3M-NL	3.3	10.80	11.80	10	18.6
<b>BCIHF1040B-4R7M-NL</b>	4.7	15.00	16.50	9.5	17
BCIHF1040B-5R6M-NL	5.6	17.60	19.30	8.5	16
<b>BCIHF1040B-6R8M-NL</b>	6.8	21.20	23.30	8.0	13.5
BCIHF1040B-8R2M-NL	8.2	31.00	34.00	7.0	12.5
BCIHF1040B-100M-NL	10	33.20	36.50	6.8	12

- ◎ All test Data is referenced to 25°C ambient
- ◎ Typical Heat Rating DC Current would cause an approximately ΔT of 40°C
- ◎ Typical Saturation DC Current would cause Lo to drop approximately 30%
- △ Operating Temperature Range: -55°C to +125°C

## BCIHF1040B Series

ITEM P/N	BCHF1040B SERIES	TEST INSTRUMENT	Zentech-3305 / Zentech502BC
PRODUCT	SMD Inductor	TEST FREQUENCY	100 kHz / 1.0V

### RECOMMENDED SOLDERING TEMP. GRAPH



A	260°C
B	230°C
C	10 Sec
D	150°C
E	60~240 Sec

### MECHANICAL RELIABILITY

TEST	Specification & Requirement	Method Used
Solderability	The surface of terminal/pin tested shall be covered with new solder by 95%	Solder heat proof: Preheating: 180 ±10°C 90 seconds Soldering: 255 ±5°C for 3 ±1 sec
Shock	Inductance change within ± 5% Without mechanical damage	Drop down with 981m/s <sup>2</sup> (100G) shock Attitude upon a rubber block method shock testing machinem, 3 tests.
Vibration	Inductance change within ± 5% Without mechanical damage	Vibration frequency: 10Hz to 55Hz to 10Hz 60 seconds cycle Vibration time: 2 hours

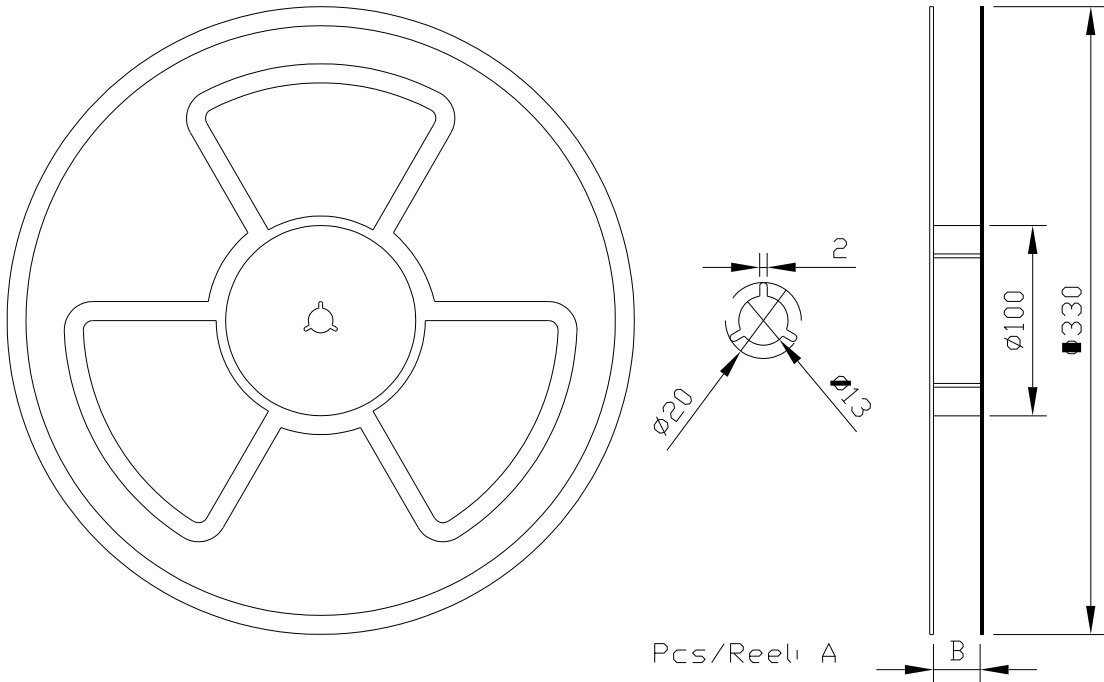
### ENDURANCE RELIABILITY

TEST	Specification & Requirement	Method Used
Thermal Shock	Inductance change within ± 5% Without mechanical damage	-25°C, (30 mins) → room temp. (5 mins) → 125°C, (30 mins) → room temp. (5 mins)
Heat Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 85°C ambient Duration: 1000 hrs
Humidity Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 60°C ambient Humidity: 90~95% Duration: 1000 hrs
Low Temp. Storing	Inductance change within ± 5% Without mechanical damage	Storing Temp. -25 ±2 °C for total 1,000 +4/-0 hours
High Temp. Storing	Inductance change within ± 5% Without mechanical damage	Storing Temp. 125 ±2 °C for total 1,000 +4/-0 hours

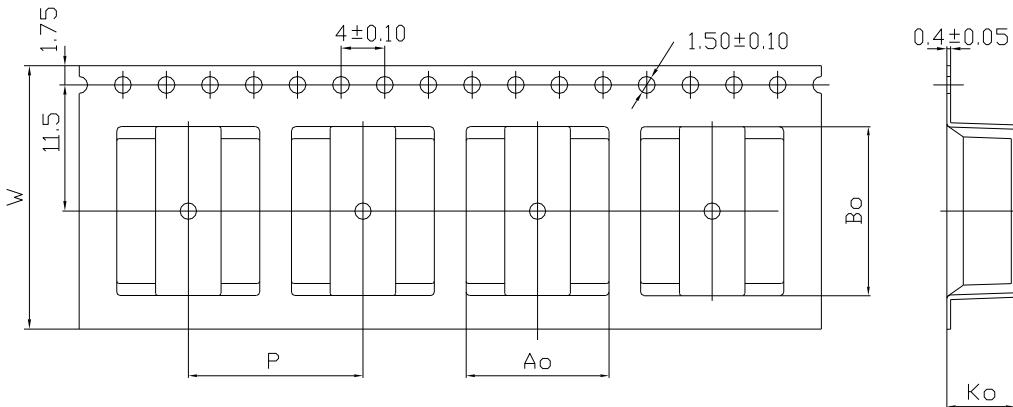
**BCIHF1040B Series**

ITEM P/N	BCHF1040B SERIES	TEST INSTRUMENT	Zentech-3305 / Zentech502BC
PRODUCT	SMD Inductor	TEST FREQUENCY	100 kHz / 1.0V

CARRIERTAPEING REEL & CARRIER MATERIALS (PAPER PLASTICS) UNIT : (mm)



A	B	Ao	Bo	Ko
800	25	11.0 ± 0.1	12.6 ± 0.1	4.1 TYP



W	P
24	16

