

Normal Choke Coil SHBC Series (Fe-Si-Al)

[RoHS Compliant]



Features

- Low core loss, high frequency drive (for smoothing, re-pressuring)

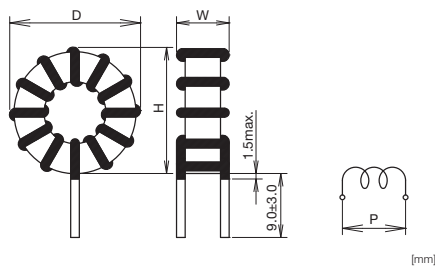
Applications

- Choke coils for switching power supply outlet
- Choke coils for DC-DC converter
- Choke coils for phase compensation
- Re-pressuring choke coils for active filter

Model	Rated current (A)	Inductance (μH)		DC resistance (mΩ/line) max.	Temperature rise (K) max.	Dimensions (mm)				Wire size (mmφ)	Weight approx. (g)
		0A ±20%	Rated current ±25%			D max.	W max.	H max.	P typ.		
SHBC8S-0R6A0024V	2	24	22.1	41.1	15	16.0	8.8	16.0	7.0	0.6	4
SHBC8S-0R6A0043V	2	43	36.9	54.1	20	17.0	9.1	17.0	7.0	0.6	4
SHBC8S-0R6A0067V	2	67	55.0	67.8	25	17.0	9.6	17.0	7.5	0.6	4
SHBC10-0R8A0038V	3	38	32.5	31.2	15	21.5	11.7	21.5	8.0	0.8	9
SHBC10-0R8A0068V	3	68	58.4	42.3	20	21.5	12.3	21.5	8.0	0.8	10
SHBC10-0R8A0107V	3	107	85.2	53.0	25	22.0	12.1	22.0	9.0	0.8	11
SHBC12-1R0A0028V	5	28	24.9	21.1	25	26.0	12.1	26.0	9.0	1.0	13
SHBC12-1R0A0051V	5	51	40.7	28.0	25	26.0	12.4	26.0	9.0	1.0	14
SHBC12-1R0A0080V	5	80	58.5	35.6	40	26.4	13.3	26.4	9.5	1.0	16
SHBC13-1R2A0045V	6	45	37.3	18.3	25	30.0	14.9	30.0	11.0	1.2	23
SHBC13-1R2A0081V	6	81	60.5	24.7	30	30.0	15.7	30.0	11.0	1.2	26
SHBC13-1R2A0127V	6	127	84.8	31.7	35	30.0	16.2	30.0	12.0	1.2	30
SHBC14-1R2A0067V	8	67	53.3	22.2	40	33.5	17.1	33.5	14.0	1.2	37
SHBC14-1R2A0120V	8	120	84.3	29.9	50	34.0	18.6	34.0	15.0	1.2	41
SHBC14-1R2A0187V	8	187	113.5	37.6	60	34.0	19.4	34.0	15.0	1.2	45
SHBC20-1R7A0054V	12	54	40.4	11.5	35	41.2	19.5	41.2	14.0	1.7	56
SHBC20-1R7A0097V	12	97	61.5	16.0	45	41.2	20.3	41.2	14.0	1.7	65
SHBC20-1R7A0152V	12	152	80.0	20.4	60	41.2	20.4	41.2	15.0	1.7	72
SHBC24N-2R0A0219V	15	219	102.6	19.5	65	50.5	26.5	50.5	19.0	2.0	137
SHBC24W-2R1A0311V	15	311	182.5	20.1	55	57.6	30.5	57.6	24.0	2.1	224
SHBC24N-2R3A0104V	20	104	53.4	10.4	55	49.5	25.8	49.5	22.0	2.3	133
SHBC24W-2R4A0174V	20	174	102.7	11.8	50	57.6	30.9	57.6	24.0	2.4	222
SHBC24N-2R1B0039V	30	39	21.2	6.8	50	50.1	25.7	50.1	20.0	2.1(2)	135
SHBC24W-2R1B0065V	30	65	40.7	6.2	50	57.6	31.2	57.6	23.0	2.1(2)	217

* As to customized products other than the mentioned above (for car application, etc.), Please feel free contact us.
 ● Operating temperature range (°C): -40 to +125 (include self temperature rise) ● Wire type: 1UEW or 1PEW
 ● Inductance measurement condition: 100kHz, 1mA, KC547
 ● Values of dimension P listed above are for reference only. The actual dimension may differ.
 ● The temperature rise during mounting is affected by the mounted coil and the harmonic components of the electric current.
 ● When selecting a product, please make sure that the coil temperature will not exceed the listed operating temperature range under planned operating conditions.

Shape and Dimensions



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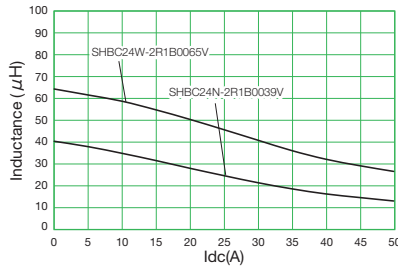
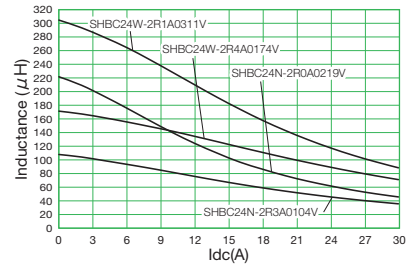
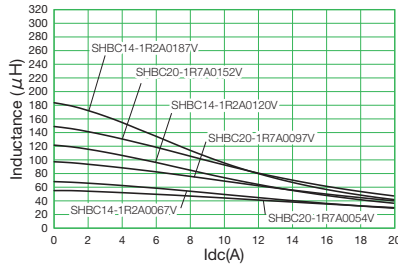
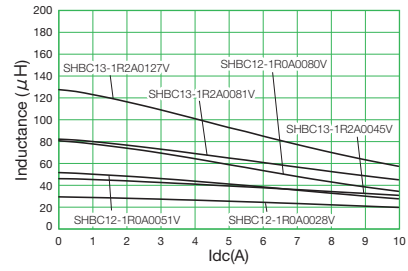
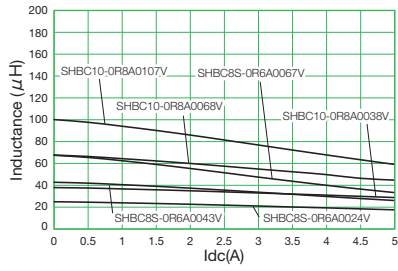
Numbering System

SHBC 8S - 0R6 A 0024 V

① ② ③ ④ ⑤ ⑥

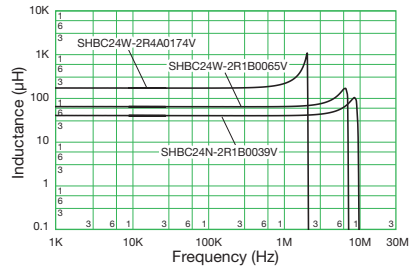
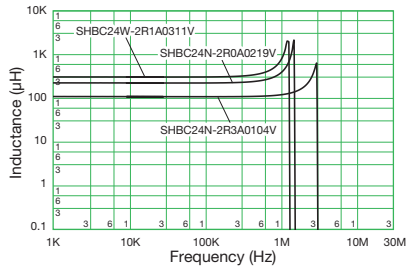
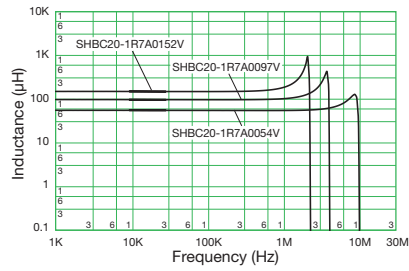
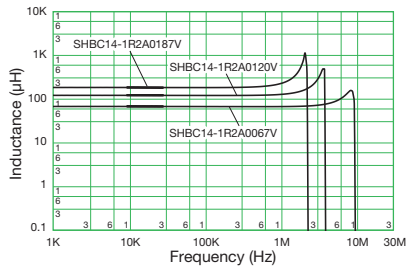
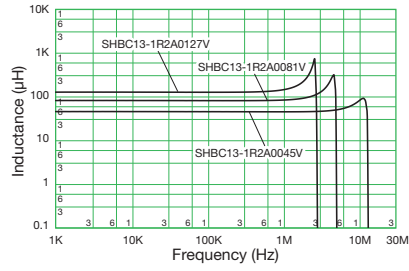
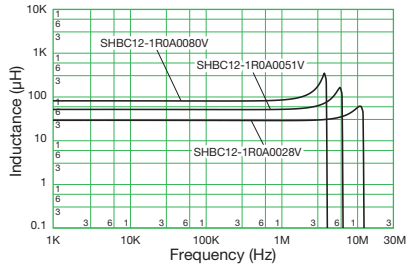
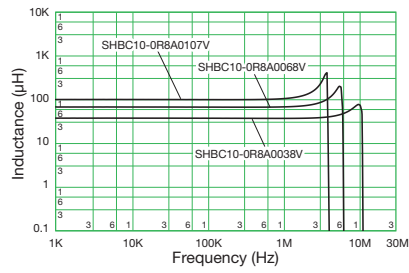
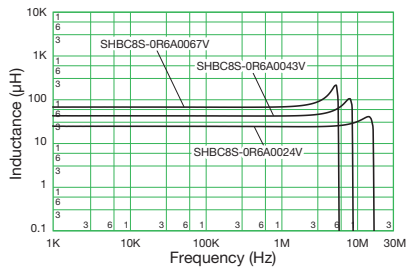
- ① Core material
- ② Core size
- ③ Wire diameter (ø0.6: 0R6)
- ④ The number of wire (1: A, 2: B, 3: C)
- ⑤ Inductance (24μH: 0024)
- ⑥ Shape (Vertical: V, Horizontal: H)

DC-Superposed Characteristics



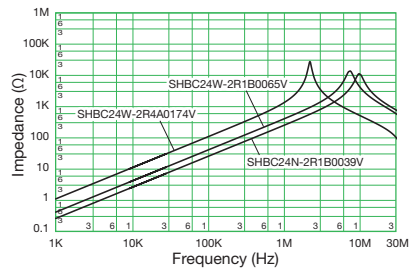
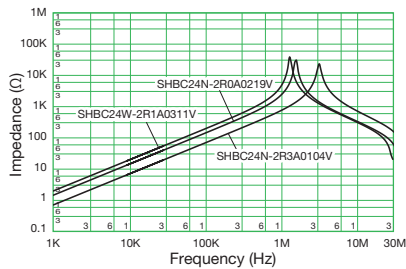
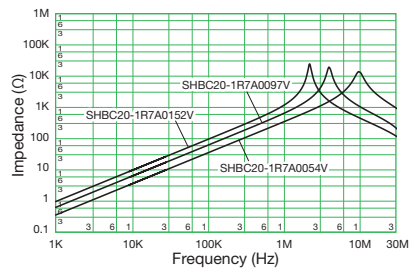
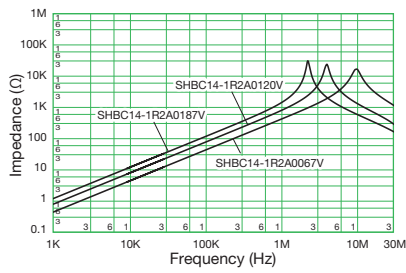
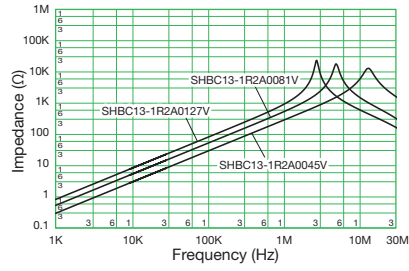
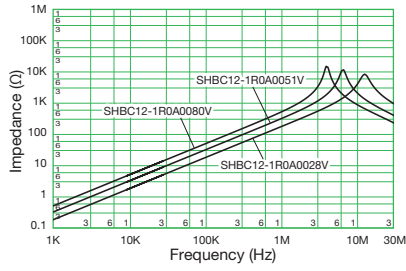
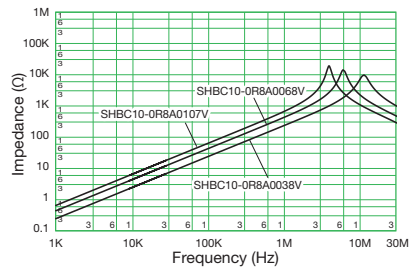
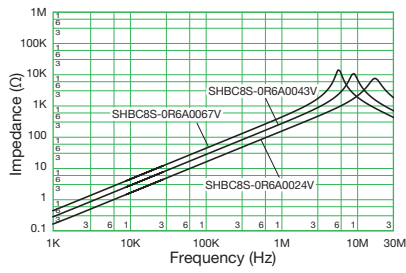
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Inductance Characteristics



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Impedance Characteristics



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