

FEATURES

- High power, High saturation inductors.
- Maximum power density.
- Available on tape and reel for auto surface mounting.

APPLICATIONS

- Power supply for VTRs.
- DC/DC converter.

PRODUCT IDENTIFICATION

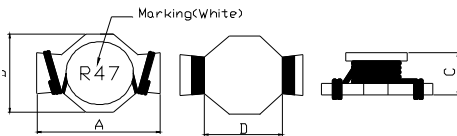
MSCDB - 0905H - 100 M - □□

- ① ② ③ ④ ⑤

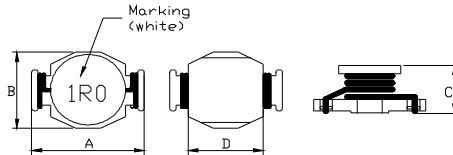
- ① Product Code
- ② Dimensions Code
- ③ Inductance Code
- ④ Tolerance Code
- ⑤ Patten Code

SHAPES AND DIMENSIONS

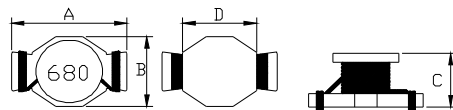
MSCDB-0905H



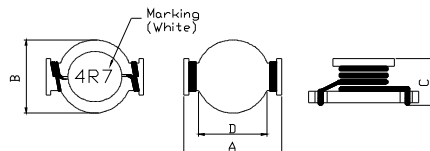
MSCDB-1305H



MSCDB-1807H



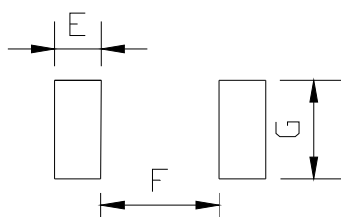
MSCDB-2206H



Unit:mm

Part No.	A	B	C	D
MSCDB-0905H	9.00Max.	6.10Max.	5.20Max.	5.84Typ.
MSCDB-1305H	13.20Max.	9.95Max.	6.35Max.	9.60Typ.
MSCDB-1807H	19.40Max.	13.30Max.	6.80Max.	12.2Typ.
MSCDB-2206H	22.30Max.	16.20Max.	7.40Max.	14.5Typ.

LAND PATTERN DIMENSIONS



Unit:mm

Part No.	E	F	G
MSCDB-0905H	2.00	5.08	4.50
MSCDB-1305H	2.20	9.00	5.50
MSCDB-1807H	3.80	11.70	8.00
MSCDB-2206H	4.20	13.10	9.50

• All specifications are subject to change without notice.

MAG.LAYERS

PRODUCT SPECIFICATIONS

MAGLAYERS PT/NO.	Inductance L(μH)	Percent Tolerance	Test Frequency	Resistance RDC(Ω)Max.	Rated DC Current IDC(A)	Marking
MSCDB-0905H-R33□	0.33	N	100kHz/0.25V	9.0m	7.0	R33
MSCDB-0905H-R47□	0.47	M,N	100kHz/0.25V	10.0m	6.0	R47
MSCDB-0905H-R56□	0.56	M,N	100kHz/0.25V	13.8m	5.2	R56
MSCDB-0905H-1R0□	1.0	M	100kHz/0.25V	18.0m	4.4	1R0
MSCDB-0905H-1R2□	1.2	M	100kHz/0.25V	19.0m	4.3	1R2
MSCDB-0905H-1R5□	1.5	M	100kHz/0.25V	20.0m	4.2	1R5
MSCDB-0905H-2R2□	2.2	M	100kHz/0.25V	35.0m	3.1	2R2
MSCDB-0905H-3R3□	3.3	M	100kHz/0.25V	43.0m	2.9	3R3
MSCDB-0905H-4R7□	4.7	M	100kHz/0.25V	54.0m	2.2	4R7
MSCDB-0905H-6R8□	6.8	M	100kHz/0.25V	90.0m	1.7	6R8
MSCDB-0905H-100□	10	M	100kHz/0.25V	0.111	1.5	100
MSCDB-0905H-150□	15	M	100kHz/0.25V	0.175	1.2	150
MSCDB-0905H-220□	22	M	100kHz/0.25V	0.255	1.0	220
MSCDB-0905H-330□	33	M	100kHz/0.25V	0.370	0.82	330
MSCDB-0905H-470□	47	M	100kHz/0.25V	0.474	0.72	470
MSCDB-0905H-680□	68	M	100kHz/0.25V	0.750	0.58	680
MSCDB-0905H-101□	100	M	100kHz/0.25V	1.110	0.47	101

※ □ specify the inductance tolerance, M(±20%), N(±30%)

※ IDC : Based on inductance change ($\Delta L/L_0$: \leq drop 10%) @ ambient temp. 25°C and
Based on temperature rise (ΔT : 40°C TYP.)

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MAGLAYERS PT/NO.	Inductance L(μH)	Percent Tolerance	Test Frequency	Resistance RDC(Ω)Max.	Rated DC Current IDC(A)	Marking
MSCDB-1305H-R47□	0.47	N	100kHz/0.25V	5m	10.6	R47
MSCDB-1305H-1R0□	1.0	M,N	100kHz/0.25V	6m	10.0	1R0
MSCDB-1305H-1R5□	1.5	M,N	100kHz/0.25V	8m	9.00	1R5
MSCDB-1305H-2R2□	2.2	M,N	100kHz/0.25V	11m	7.40	2R2
MSCDB-1305H-2R7□	2.7	M,N	100kHz/0.25V	12m	6.60	2R7
MSCDB-1305H-3R3□	3.3	M,N	100kHz/0.25V	14m	5.90	3R3
MSCDB-1305H-3R9□	3.9	M,N	100kHz/0.25V	15m	5.30	3R9
MSCDB-1305H-4R7□	4.7	M,N	100kHz/0.25V	18m	4.80	4R7
MSCDB-1305H-6R8□	6.8	M,N	100kHz/0.25V	23m	4.50	6R8
MSCDB-1305H-100□	10	M,N	100kHz/0.25V	30m	4.30	100
MSCDB-1305H-150□	15	M,N	100kHz/0.25V	45m	3.60	150
MSCDB-1305H-220□	22	M,N	100kHz/0.25V	64m	2.90	220
MSCDB-1305H-330□	33	M,N	100kHz/0.25V	99m	2.40	330
MSCDB-1305H-470□	47	M,N	100kHz/0.25V	0.146	1.90	470
MSCDB-1305H-680□	68	M,N	100kHz/0.25V	0.190	1.70	680
MSCDB-1305H-820□	82	M,N	100kHz/0.25V	0.268	1.50	820
MSCDB-1305H-101□	100	M,N	100kHz/0.25V	0.277	1.40	101
MSCDB-1305H-151□	150	M,N	100kHz/0.25V	0.424	1.10	151
MSCDB-1305H-221□	220	M,N	100kHz/0.25V	0.636	0.93	221
MSCDB-1305H-331□	330	M,N	100kHz/0.25V	0.977	0.76	331

※ □ specify the inductance tolerance, M(±20%), N(±30%)

※ IDC : Based on inductance change ($\Delta L/L_0$: \leq drop 10%) @ ambient temp. 25°C and
Based on temperature rise (ΔT : 40°C TYP.)

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PRODUCT SPECIFICATIONS

MAGLAYERS PT/NO.	Inductance L(μH)	Percent Tolerance	Test Frequency	Resistance RDC(Ω)Max.	Rated DC Current		Marking
					IDC1(A)	IDC2(A)	
MSCDB-1807H-4R7 <input type="checkbox"/>	4.7	N	100kHz,0.25V	12m	6.5	7.0	4R7
MSCDB-1807H-6R8 <input type="checkbox"/>	6.8	N	100kHz,0.25V	19m	5.8	5.5	6R8
MSCDB-1807H-680 <input type="checkbox"/>	68	M,N	100kHz,0.25V	0.156	1.6	2.0	680

※ specify the inductance tolerance, M(±20%), N(±30%)

※ IDC1 : Based on inductance change ($\Delta L/L_0$: \leq drop 30%) @ ambient temp. 25°C

IDC2 : Based on temperature rise (ΔT : 40°C Typ.)

Rated DC Current : The less value which is IDC1 or IDC2.

PRODUCT SPECIFICATIONS

MAGLAYERS PT/NO.	Inductance L(μH)	Percent Tolerance	Test Frequency	Resistance RDC(Ω)Max.	Rated DC Current		Marking
					IDC1(A)	IDC2(A)	
MSCDB-2206H-R80□	0.8	M,N	100kHz/0.25V	2.76m	35.0	16.0	R80
MSCDB-2206H-1R2□	1.2	M,N	100kHz/0.25V	4.20m	30.0	15.0	1R2
MSCDB-2206H-1R8□	1.8	M,N	100kHz/0.25V	5.40m	25.0	13.0	1R8
MSCDB-2206H-2R7□	2.7	M,N	100kHz/0.25V	8.40m	20.0	10.0	2R7
MSCDB-2206H-3R3□	3.3	M,N	100kHz/0.25V	9.36m	17.0	9.0	3R3
MSCDB-2206H-4R7□	4.7	M,N	100kHz/0.25V	10.6m	15.0	8.5	4R7
MSCDB-2206H-5R6□	5.6	M,N	100kHz/0.25V	14.9m	14.0	7.8	5R6
MSCDB-2206H-6R8□	6.8	M,N	100kHz/0.25V	17.0m	12.0	7.5	6R8
MSCDB-2206H-8R2□	8.2	M,N	100kHz/0.25V	18.6m	11.0	7.0	8R2
MSCDB-2206H-100□	10	M,N	100kHz/0.25V	20.6m	10.0	6.5	100
MSCDB-2206H-120□	12	L,M	100kHz/0.25V	28.3m	9.5	5.5	120
MSCDB-2206H-150□	15	L,M	100kHz/0.25V	33.6m	9.0	5.0	150
MSCDB-2206H-180□	18	L,M	100kHz/0.25V	39.6m	8.0	4.6	180
MSCDB-2206H-220□	22	L,M	100kHz/0.25V	47.3m	6.5	4.0	220
MSCDB-2206H-270□	27	L,M	100kHz/0.25V	52.2m	6.0	3.8	270
MSCDB-2206H-330□	33	L,M	100kHz/0.25V	70.1m	5.5	3.4	330
MSCDB-2206H-390□	39	K,M	100kHz/0.25V	78.0m	5.2	3.2	390
MSCDB-2206H-470□	47	K,M	100kHz/0.25V	0.109	5.0	2.8	470
MSCDB-2206H-560□	56	K,M	100kHz/0.25V	0.116	4.5	2.6	560
MSCDB-2206H-680□	68	K,M	100kHz/0.25V	0.134	4.0	2.4	680
MSCDB-2206H-820□	82	K,M	100kHz/0.25V	0.173	3.5	2.2	820
MSCDB-2206H-101□	100	K,M	100kHz/0.25V	0.202	3.0	2.0	101
MSCDB-2206H-121□	120	K,M	100kHz/0.25V	0.230	3.0	1.6	121
MSCDB-2206H-151□	150	K,M	100kHz/0.25V	0.250	2.6	1.5	151
MSCDB-2206H-181□	180	K,M	100kHz/0.25V	0.300	2.5	1.3	181
MSCDB-2206H-221□	220	K,M	100kHz/0.25V	0.380	2.4	1.2	221
MSCDB-2206H-271□	270	K,M	100kHz/0.25V	0.470	2.2	1.1	271
MSCDB-2206H-331□	330	K,M	100kHz/0.25V	0.560	1.9	1.0	331
MSCDB-2206H-391□	390	K,M	100kHz/0.25V	0.680	1.7	0.9	391
MSCDB-2206H-471□	470	K,M	100kHz/0.25V	0.850	1.4	0.82	471
MSCDB-2206H-561□	560	K,M	100kHz/0.25V	1.00	1.3	0.78	561
MSCDB-2206H-681□	680	K,M	100kHz/0.25V	1.10	1.2	0.72	681
MSCDB-2206H-821□	820	K,M	100kHz/0.25V	1.40	1.1	0.64	821
MSCDB-2206H-102□	1000	K,M	100kHz/0.25V	1.80	1.0	0.56	102

※ □ specify the inductance tolerance, K(±10%), L(±15%), M(±20%), N(±30%)

※ IDC1 : Based on inductance change ($\Delta L/L_0 : \leq$ drop 10% Typ.)@ ambient temp. 25°C

IDC2 : Based on temperature rise ($\Delta T : 40^\circ\text{C}$ Typ.)

Rated DC Current : The less value which is IDC1 or IDC2.

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