

ADB Technology Co., Ltd.

Shielded Construction - SMT / SHY 2D~3D Series

Feature

Magnetically shielded structure that ensures the high-density Mounting configurations.

Flat bottom surface ensures secure, reliable mounting.

Provided in embossed carrier tape packaging for use with automatic.

Application

Low profile/ large current specifically suitable for Portable telephones, hard disk drives, PDA, DSC and other electronic equipments.

Product Identification

SHY
1

2D10
2

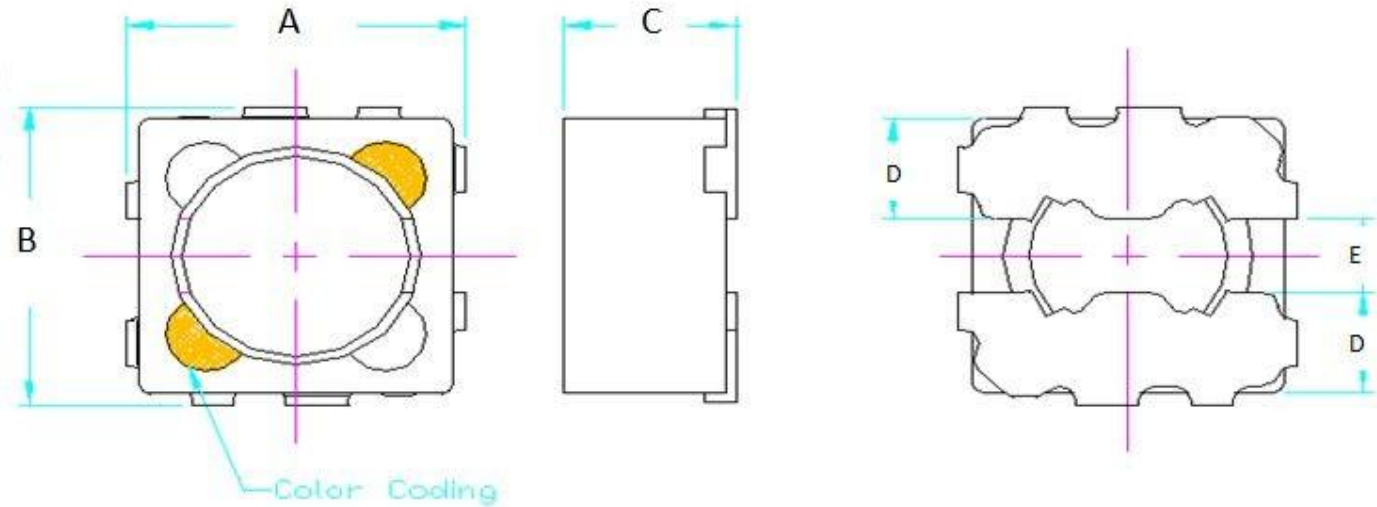
1R2
3

M
4

1. Series name.
2. Dimension.
3. Inductance.
4. Tolerance.
(M=±20%, N=±30%)

ADB

Configurations & Dimensions



Series Name	A	B	C	D	E
SHY 2D10	3.2±0.2	3.2±0.2	1.05(MAX)	1.1(MAX)	0.8(REF)
SHY 2D15	3.2±0.2	3.2±0.2	1.55(MAX)	1.1(MAX)	0.8(REF)
SHY 2D18	3.2±0.2	3.2±0.2	1.80(MAX)	1.1 (MAX)	0.8 (REF)
SHY 3D12	4.2±0.2	4.2±0.2	1.25(MAX)	1.3(MAX)	1.0(REF)
SHY 3D15	4.2±0.2	4.2±0.2	1.55(MAX)	1.3(MAX)	1.0(REF)
SHY 3D18	4.2±0.2	4.2±0.2	1.80(MAX)	1.3(MAX)	1.0(REF)

Unit: mm

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Electrical Characteristics

<i>SHY 2D10 Series</i>				
Part Number	Inductance (μH)	Test Condition (Volt / Hz)	DC Resistance Max. ($\text{m}\Omega$)	Irms Typ. (mA)
SHY 2D10-1R2 __	1.2	1.0 / 1K	78	1500
SHY 2D10-1R5 __	1.5	1.0 / 1K	87	1400
SHY 2D10-1R8 __	1.8	1.0 / 1K	97	1350
SHY 2D10-2R2 __	2.2	1.0 / 1K	106	1250
SHY 2D10-2R7 __	2.7	1.0 / 1K	127	1100
SHY 2D10-3R3 __	3.3	1.0 / 1K	180	1000
SHY 2D10-3R9 __	3.9	1.0 / 1K	209	900
SHY 2D10-4R7 __	4.7	1.0 / 1K	280	850
SHY 2D10-5R6 __	5.6	1.0 / 1K	306	750
SHY 2D10-6R8 __	6.8	1.0 / 1K	375	700
SHY 2D10-8R2 __	8.2	1.0 / 1K	420	650
SHY 2D10-100 __	10	1.0 / 1K	502	600
SHY 2D10-120 __	12	1.0 / 1K	675	550
SHY 2D10-150 __	15	1.0 / 1K	800	500
SHY 2D10-180 __	18	1.0 / 1K	890	450
SHY 2D10-220 __	22	1.0 / 1K	1100	400
<i>SHY 2D15 Series</i>				
Part Number	Inductance (μH)	Test Condition (Volt / Hz)	DC Resistance Max. ($\text{m}\Omega$)	Irms Typ. (mA)
SHY 2D15-1R0 __	1.0	1.0 / 1K	49	2200
SHY 2D15-1R5 __	1.5	1.0 / 1K	62	1650
SHY 2D15-2R2 __	2.2	1.0 / 1K	85	1500
SHY 2D15-3R3 __	3.3	1.0 / 1K	142	1300
SHY 2D15-3R9 __	3.9	1.0 / 1K	148	1200
SHY 2D15-4R7 __	4.7	1.0 / 1K	178	1150
SHY 2D15-6R8 __	6.8	1.0 / 1K	246	900
SHY 2D15-100 __	10	1.0 / 1K	360	800
SHY 2D15-150 __	15	1.0 / 1K	517	640
SHY 2D15-220 __	22	1.0 / 1K	856	500

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<i>SHY 2D15L Series</i>				
Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m Ω)	Irms Typ. (mA)
SHY 2D15L-1R0 __	1.0	1.0 / 1K	33	2400
SHY 2D15L-1R2 __	1.2	1.0 / 1K	37	2200
SHY 2D15L-1R5 __	1.5	1.0 / 1K	40	2000
SHY 2D15L-1R8 __	1.8	1.0 / 1K	55	1900
SHY 2D15L-2R2 __	2.2	1.0 / 1K	63	1800
SHY 2D15L-2R7 __	2.7	1.0 / 1K	68	1450
SHY 2D15L-3R3 __	3.3	1.0 / 1K	89	1300
SHY 2D15L-3R9 __	3.9	1.0 / 1K	108	1150
SHY 2D15L-4R7 __	4.7	1.0 / 1K	132	1100
SHY 2D15L-5R6 __	5.6	1.0 / 1K	156	1060
SHY 2D15L-6R8 __	6.8	1.0 / 1K	166	1000
SHY 2D15L-8R2 __	8.2	1.0 / 1K	230	900
SHY 2D15L-100 __	10	1.0 / 1K	244	800
SHY 2D15L-120 __	12	1.0 / 1K	324	700
SHY 2D15L-150 __	15	1.0 / 1K	370	700
SHY 2D15L-180 __	18	1.0 / 1K	489	620
SHY 2D15L-220 __	22	1.0 / 1K	590	580
<i>SHY 2D18 Series</i>				
Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m Ω)	Irms Typ. (mA)
SHY 2D18-1R0 __	1.0	1.0 / 1K	38	2300
SHY 2D18-1R8 __	1.8	1.0 / 1K	63	1850
SHY 2D18-2R2 __	2.2	1.0 / 1K	74	1700
SHY 2D18-3R3 __	3.3	1.0 / 1K	103	1100
SHY 2D18-3R9 __	3.9	1.0 / 1K	115	1050
SHY 2D18-4R7 __	4.7	1.0 / 1K	152	1000
SHY 2D18-6R8 __	6.8	1.0 / 1K	223	950
SHY 2D18-100 __	10	1.0 / 1K	340	800
SHY 2D18-120 __	12	1.0 / 1K	370	700
SHY 2D18-150 __	15	1.0 / 1K	587	620
SHY 2D18-220 __	22	1.0 / 1K	750	450

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SHY 2D18L Series				
Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m Ω)	Irms Typ. (mA)
SHY 2D18L-1R0 __	1.0	1.0 / 1K	30	1900
SHY 2D18L-1R2 __	1.2	1.0 / 1K	36	1850
SHY 2D18L-1R5 __	1.5	1.0 / 1K	43	1780
SHY 2D18L-1R8 __	1.8	1.0 / 1K	44	1740
SHY 2D18L-2R2 __	2.2	1.0 / 1K	55	1700
SHY 2D18L-2R7 __	2.7	1.0 / 1K	58	1500
SHY 2D18L-3R3 __	3.3	1.0 / 1K	78	1400
SHY 2D18L-3R9 __	3.9	1.0 / 1K	87	1260
SHY 2D18L-4R7 __	4.7	1.0 / 1K	99	1200
SHY 2D18L-5R6 __	5.6	1.0 / 1K	110	1120
SHY 2D18L-6R8 __	6.8	1.0 / 1K	114	1100
SHY 2D18L-8R2 __	8.2	1.0 / 1K	160	920
SHY 2D18L-100 __	10	1.0 / 1K	190	900
SHY 2D18L-120 __	12	1.0 / 1K	222	800
SHY 2D18L-150 __	15	1.0 / 1K	285	720
SHY 2D18L-180 __	18	1.0 / 1K	350	660
SHY 2D18L-220 __	22	1.0 / 1K	440	500
SHY 2D18L-270 __	27	1.0 / 1K	490	420

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<i>SHY 3D12 Series</i>				
Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m Ω)	Irms Typ. (mA)
SHY 3D12-1R0 __	1.0	1.0 / 1K	42	2000
SHY 3D12-1R2 __	1.2	1.0 / 1K	48	1900
SHY 3D12-1R5 __	1.5	1.0 / 1K	55	1800
SHY 3D12-1R8 __	1.8	1.0 / 1K	73	1750
SHY 3D12-2R2 __	2.2	1.0 / 1K	83	1750
SHY 3D12-2R7 __	2.7	1.0 / 1K	109	1440
SHY 3D12-3R3 __	3.3	1.0 / 1K	118	1400
SHY 3D12-3R9 __	3.9	1.0 / 1K	143	1300
SHY 3D12-4R7 __	4.7	1.0 / 1K	159	1200
SHY 3D12-5R6 __	5.6	1.0 / 1K	213	1000
SHY 3D12-6R8 __	6.8	1.0 / 1K	224	960
SHY 3D12-8R2 __	8.2	1.0 / 1K	252	940
SHY 3D12-100 __	10	1.0 / 1K	327	900
SHY 3D12-120 __	12	1.0 / 1K	363	820
SHY 3D12-150 __	15	1.0 / 1K	516	640
SHY 3D12-180 __	18	1.0 / 1K	625	600
SHY 3D12-220 __	22	1.0 / 1K	732	520

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SHY 3D15 Series				
Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. ($m\Omega$)	Irms Typ. (mA)
SHY 3D15-1R0 __	1.0	1.0 / 1K	40	2800
SHY 3D15-1R2 __	1.2	1.0 / 1K	43	2700
SHY 3D15-1R5 __	1.5	1.0 / 1K	50	2600
SHY 3D15-1R8 __	1.8	1.0 / 1K	55	2100
SHY 3D15-2R2 __	2.2	1.0 / 1K	71	2000
SHY 3D15-2R7 __	2.7	1.0 / 1K	78	1600
SHY 3D15-3R3 __	3.3	1.0 / 1K	87	1600
SHY 3D15-3R9 __	3.9	1.0 / 1K	100	1500
SHY 3D15-4R7 __	4.7	1.0 / 1K	137	1400
SHY 3D15-5R6 __	5.6	1.0 / 1K	147	1200
SHY 3D15-6R8 __	6.8	1.0 / 1K	170	1150
SHY 3D15-8R2 __	8.2	1.0 / 1K	195	1100
SHY 3D15-100 __	10	1.0 / 1K	228	1100
SHY 3D15-120 __	12	1.0 / 1K	275	1000
SHY 3D15-150 __	15	1.0 / 1K	340	720
SHY 3D15-180 __	18	1.0 / 1K	380	680
SHY 3D15-220 __	22	1.0 / 1K	490	650
SHY 3D15-270 __	27	1.0 / 1K	735	550
SHY 3D15-330 __	33	1.0 / 1K	890	480
SHY 3D15-390 __	39	1.0 / 1K	1000	420
SHY 3D15-470 __	47	1.0 / 1K	1150	350

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SHY 3D18 Series				
Part Number	Inductance (μ H)	Test Condition (Volt / Hz)	DC Resistance Max. (m Ω)	Irms Typ. (mA)
SHY 3D18-1R0 __	1.0	1.0 / 1K	33	2800
SHY 3D18-1R2 __	1.2	1.0 / 1K	42	2400
SHY 3D18-1R5 __	1.5	1.0 / 1K	48	2250
SHY 3D18-1R8 __	1.8	1.0 / 1K	55	2100
SHY 3D18-2R2 __	2.2	1.0 / 1K	58	1950
SHY 3D18-2R7 __	2.7	1.0 / 1K	66	1800
SHY 3D18-3R3 __	3.3	1.0 / 1K	78	1650
SHY 3D18-3R9 __	3.9	1.0 / 1K	79	1560
SHY 3D18-4R7 __	4.7	1.0 / 1K	95	1450
SHY 3D18-5R6 __	5.6	1.0 / 1K	102	1300
SHY 3D18-6R8 __	6.8	1.0 / 1K	128	1200
SHY 3D18-8R2 __	8.2	1.0 / 1K	146	1150
SHY 3D18-100 __	10	1.0 / 1K	165	1050
SHY 3D18-120 __	12	1.0 / 1K	254	800
SHY 3D18-150 __	15	1.0 / 1K	320	720
SHY 3D18-180 __	18	1.0 / 1K	360	680
SHY 3D18-220 __	22	1.0 / 1K	418	650
SHY 3D18-270 __	27	1.0 / 1K	450	600
SHY 3D18-330 __	33	1.0 / 1K	620	580
SHY 3D18-390 __	39	1.0 / 1K	650	480
SHY 3D18-470 __	47	1.0 / 1K	1002	450
SHY 3D18-560 __	56	1.0 / 1K	1020	400

1. When ordering, please specify tolerance and packaging codes. Ex: SHY3D18-3R3M-T

Tolerance : M = \pm 20% , N = \pm 30%

Packaging : Clear tape and reel { standard }.

2. L , I_{dc} : Agilent/HP 4284A, 1KHz with 1V

3. R_{dc} : DIGITAL MILLIOHM METER Chroma 16502, or equivalent.

4. I_{dc} for Inductance drop 10% or 35% from its value without current.

5. I_{rms} for a 25°C rise above 25°C ambient.

6. Operating temperature range from -25°C to 105°C.

7. Packaging quantity: 1000 pcs/reel