

Surface-Mount and Axial-Lead Inductors



SURFACE-MOUNT INDUCTORS

Multilayer Ferrite Beads/Inductors: ILB, ILBB, ILSB

Film Inductors: FC

Wirewound Inductors: IMC, ISC

Power Inductors: IHSM, IHLP, IDC, IDCS, IDCP

Transformer: LPE, LPT

AXIAL-LEAD INDUCTORS

TJ, IM, IMS, IHD, IHA




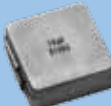
Surface-mount and axial-lead inductors from Vishay are available in a wide range of sizes and electrical specifications making them ideal for use in disk drives, telecommunications, instrumentation, medical equipment, and automotive systems. Vishay manufactures an inductor for every design problem from EMI/RFI suppression and impedance matching to band pass filters.

RESOURCES

- For more information on surface-mount inductors, visit <http://www.vishay.com/inductors>
- For more information on axial-lead inductors, visit <http://www.vishay.com/inductors/axial-leaded/>
- For technical questions contact magnetics@vishay.com

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components



Product	Characteristics	Case Size	Value Range	Rated Current (mA)
 ILB	Multilayer shield beads, ideal for EMI and RFI suppression (High current beads from 0603 to 1812 are also available)	0402 0603 0805 1206 1210 1806 1812	20 Ω - 600 Ω 10 Ω - 2000 Ω 7 Ω - 2200 Ω 19 Ω - 2000 Ω 31 Ω - 90 Ω 80 Ω - 150 Ω 70 Ω - 120 Ω	200 to 300 50 to 500 80 to 600 100 to 500 400 200 to 400 200
 ILSB	Multilayer, ferrite, shielded inductor	0603 0805 1206	.047 μ H - 10 μ H .047 μ H - 33 μ H .047 μ H - 33 μ H	15 to 50 5 to 300 5 to 300
 IFC	High frequency film chip inductor	0603 0805	1.5 nH - 18 nH 1.5 nH - 47 nH	400 to 1000 300 to 1000
 IMC	High frequency laser spiral technology, excellent size-to-inductance-range ratio	0402 0603	1 nH - 100 nH 1 nH - 220 nH	90 to 400 70 to 500
 IMC	High frequency wirewound technology, moisture resistant, excellent size-to-inductance-range ratio	0805-01 1008 1210 1812	2.2 nH - 10000 nH 3.3 nH - 47000 nH .01 μ H - 220 μ H .01 μ H - 1000 μ H	80 to 800 45 to 1000 50 to 734 30 to 450
 ISC	Molded, shielded, wirewound technology, moisture resistant, excellent size-to-inductance-range ratio	1210 1812	.01 μ H - 100 μ H .1 μ H - 1000 μ H	80 to 810 66 to 552
 IHSM	High current, wirewound, surface mount, flame-retardant encapsulated body	3825 4825 5832 7832	1 μ H - 1000 μ H 1 μ H - 1000 μ H 1 μ H - 4700 μ H 1 μ H - 18000 μ H	160 to 5110 240 to 8600 140 to 9000 110 to 9000
 IHLP	High current, low profile inductor	1616AB-01 1616AB-11 1616BZ-01 1616BZ-11	.047 μ H - 1.0 μ H .047 μ H - 2.2 μ H .1 μ H - 2.2 μ H .1 μ H - 4.7 μ H	4000 to 13000 2750 to 15000 2850 to 11000 2000 to 12000
 IHLP	High current, low profile inductor	2525AH-01 2525BD-01 2525CZ-01 2525CZ-11	.1 μ H - 4.7 μ H .1 μ H - 10 μ H .1 μ H - 10 μ H 1.0 μ H - 22 μ H	3000 to 18000 2500 to 30000 3000 to 32500 2900 to 12500
 IHLP	High current, low profile inductor	4040DZ-01 4040DZ-11	0.19 μ H - 10 μ H 0.19 μ H - 100 μ H	6800 to 40000 2500 to 40000
 IHLP	High current, low profile inductor	5050CE-01 5050EZ-01 5050FD-01	.1 μ H - 10 μ H .1 μ H - 10 μ H .1 μ H - 10 μ H	7000 to 43000 9000 to 55000 10000 to 60000

Product	Characteristics	Case Size	Value Range	Rated Current (mA)
IDC 	High current, surface mount inductor	2512 5020 7328	1 μ H - 1000 μ H 1 μ H - 1000 μ H 1 μ H - 1000 μ H	70 to 2900 300 to 6800 560 to 8600
IDCS 	High current, shielded, surface mount inductor	2512 5020 7328	1 μ H - 10000 μ H 1 μ H - 390 μ H 10 μ H - 1000 μ H	20 to 3000 330 to 5000 530 to 3900
IDCP 	High current, surface mount inductor	1813 2218 3020 3114 3722 3916	1 μ H - 68 μ H 10 μ H - 220 μ H 10 μ H - 470 μ H 10 μ H - 330 μ H 10 μ H - 20 μ H 10 μ H - 560 μ H	460 to 3800 350 to 1440 340 to 2300 280 to 1440 240 to 2600 320 to 2380
LPT 	Low profile surface mount, toroidal core, 2 separate windings, 4 terminals, 4545: .450" diameter 3535: .350" diameter	3535 4545	1 μ H - 330 μ H 1 μ H - 330 μ H	270 to 6450 430 to 7540
LPE 	High current, surface mount, gapped and ungapped, ferrite core, 18 package sizes, solvent resistant, above board height: .205" [5.2] to .335" [8.5] transformers and inductors	3525 4841 5047 6562 6855	10 μ H - 3900 μ H 10 μ H - 39000 μ H 10 μ H - 68000 μ H 10 μ H - 330000 μ H 10 μ H - 150000 μ H	60 to 1010 80 to 2030 70 to 2290 60 to 3090 60 to 3210
TJ 	High current, vertical mount reduces PC board size, toroid design decreases EMI, 7 sizes, current ratings up to 20 Amps		1.2 μ H - 5600 μ H	500 to 20000
IM 	Standard and military models, axial leads, flameproof, molded epoxy coating	Standard	.10 μ H - 10000 μ H	28 to 3600
IMS 	Standard and military models. Axial leads, shielded, molded epoxy encapsulation, flameproof, moisture proof	Standard	.10 μ H - 100000 μ H	11 to 2900
IHD 	High current, axial leads, polyolefin sleeve, current ratings up to 5 Amps	IHD-1 IHD-3	1 μ H - 18000 μ H 3.9 μ H - 100000 μ H	80 to 5300 70 to 4000
IHA 	High current, axial leads, polyolefin sleeve, flame-retardant, current ratings up to 9 Amps		50 μ H - 1000 μ H	1400 to 9300

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