

# VISHAY / DALE SMT Multilayer Ferrite Beads



RoHS Compliant This page of product is compliant.



## ILHB SERIES - HIGH CURRENT MULTILAYER FERRITE BEADS

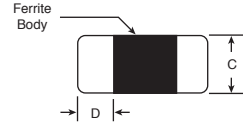
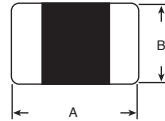
DIMENSIONS: in. (mm)

### Features:

- High reliability
- Surface mountable
- Current rating up to 6 amps.
- Magnetically self shielded.
- Nickel barrier plating virtually eliminates silver migration
- 100% Lead (Pb)-free and RoHS compliant
- Tape and Reel

### Environmental Specifications:

- Operating Temperature: -55°C to +125°C
- Thermal Shock: 100 cycles, -40°C to +125°C
- Biased Humidity: 85% RH at 85°C, 1000 hours at full rated current.



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For quantities of 4000 and up, call for quote.

Series	DIMENSIONS: In (mm)			
	A	B	C	D
ILHB-0603	0.06 ± 0.006 (1.6 ± 0.15)	0.03 ± 0.006 (0.8 ± 0.15)	0.03 ± 0.006 (0.8 ± 0.15)	0.012 ± 0.008 (0.30 ± 0.20)
ILHB-0805	0.079 ± 0.008 (2.0 ± 0.20)	0.049 ± 0.008 (1.25 ± 0.20)	0.035 ± 0.008 (0.9 ± 0.20)	0.02 ± 0.0012 (0.50 ± 0.30)
ILHB-1206	0.126 ± 0.008 (3.2 ± 0.20)	0.063 ± 0.008 (1.6 ± 0.20)	0.043 ± 0.008 (1.1 ± 0.20)	0.02 ± 0.0012 (0.50 ± 0.30)
ILHB-1806	0.177 ± 0.010 (4.5 ± 0.25)	0.063 ± 0.008 (1.6 ± 0.20)	0.063 ± 0.008 (1.6 ± 0.20)	0.024 ± 0.0016 (0.60 ± 0.40)
ILHB-1812	0.177 ± 0.010 (4.5 ± 0.25)	0.126 ± 0.010 (3.2 ± 0.25)	0.06 ± 0.01 (1.5 ± 0.25)	0.024 ± 0.0016 (0.60 ± 0.40)

MOUSER STOCK NO.	Vishay Part No.	Impedance (±25%)	Impedance Test Freq. (MHz)	DCR Max. (Ω)	Rated DC Current (mA)	Price Each			
						1	100	500	1000
70-ILHB0603ER121V	ILHB0603ER121V	120	100	0.1	2000	.05	.04	.03	.02
70-ILHB0805ER900V	ILHB0805ER900V	90	100	0.025	5000	.06	.05	.04	.03
70-ILHB0805ER251V	ILHB0805ER251V	250	100	0.04	3000	.06	.05	.04	.03
70-ILHB1206ER601V	ILHB1206ER601V	600	100	0.1	2500	.10	.08	.06	.05
70-ILHB1806ER600V	ILHB1806ER600V	60	100	0.02	6000	.20	.15	.13	.10
70-ILHB1812ER121V	ILHB1812ER121V	120	100	0.02	6000	.18	.14	.11	.09

EMI Suppression

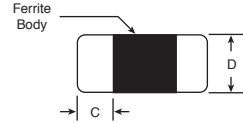
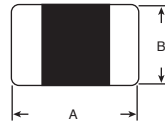


## ILBB-0402/0603/0805 MULTILAYER FERRITE BEADS

DIMENSIONS: in. (mm)

### Features:

- High reliability
- Surface mountable
- Magnetically self shielded
- Nickel barrier plating



For quantities of 6000 and up, call for quote.

### Environmental Specifications:

- Operating Temperature: -55°C to +125°C
- Thermal Shock: 100 cycles, -40°C to +125°C
- Biased Humidity: 85% RH at 85°C



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Series	DIMENSIONS: In (mm)			
	A	B	C	D
ILBB-0402	0.04±0.004 (1.0±.1)	0.02±0.004 (0.5±0.1)	0.02±0.004 (0.5±0.1)	0.01±0.004 (0.25±0.1)
ILBB-0603	0.063 ± .006 (1.6 ± 0.15)	0.032 ± .006 (0.8 ± 0.15)	0.014 ± .006 (0.36 ± 0.15)	0.032 ± .006 (0.8 ± 0.15)
ILBB-0805	0.079 ± .008 (2.0 ± 0.2)	0.049 ± .008 (1.25 ± 0.2)	0.020 ± .0012 (0.5 ± 0.3)	0.035 ± .008 (0.9 ± 0.2)

MOUSER STOCK NO.	Vishay Part No.	Z @ 100MHz (±25%)	DCR max. (Ω)	Rated DC Current (mA)	Price Each					
					1	100	500	1000	4000	
<b>0402 Size</b>										
70-ILBB0402ER600V	ILBB0402ER600V	60	0.30	300	.16	.13	.125	.12	.11	
70-ILBB0402ER121V	ILBB0402ER121V	120	0.45	300	.16	.13	.125	.12	.11	
70-ILBB0402ER601V	ILBB0402ER601V	600	1.00	200	.16	.13	.125	.12	.11	
<b>0603 Size</b>										
70-ILBB0603ER600V	ILBB0603ER600V	60	0.1	400	.15	.12	.07	.066	.056	
70-ILBB0603ER680V	ILBB0603ER680V	68	0.1	200	.15	.12	.07	.066	.056	
70-ILBB0603ER121V	ILBB0603ER121V	120	0.2	150	.15	.12	.07	.066	.056	
70-ILBB0603ER301V	ILBB0603ER301V	300	0.35	150	.15	.12	.07	.066	.056	
70-ILBB0603ER601V	ILBB0603ER601V	600	0.45	100	.15	.12	.07	.066	.056	
70-ILBB0603ER751V	ILBB0603ER751V	750	0.6	100	.17	.10	.05	.046	.036	
70-ILBB0603ER102V	ILBB0603ER102V	1K	0.6	100	.17	.10	.05	.046	.036	
<b>0805 Size</b>										
70-ILBB0805ER110V	ILBB0805ER110V	11	0.06	600	.17	.10	.05	.046	.036	
70-ILBB0805ER170V	ILBB0805ER170V	17	0.06	600	.17	.10	.05	.046	.036	
70-ILBB0805ER320V	ILBB0805ER320V	32	0.06	600	.17	.10	.05	.046	.036	
70-ILBB0805ER800V	ILBB0805ER800V	80	0.15	300	.17	.10	.05	.046	.036	
70-ILBB0805ER121V	ILBB0805ER121V	120	0.15	300	.17	.10	.05	.046	.036	
70-ILBB0805ER151V	ILBB0805ER151V	150	0.15	300	.17	.10	.05	.046	.036	
70-ILBB0805ER301V	ILBB0805ER301V	300	0.2	200	.17	.10	.05	.046	.036	
70-ILBB0805ER601V	ILBB0805ER601V	600	0.3	200	.17	.10	.05	.046	.036	
70-ILBB0805ER102V	ILBB0805ER102V	1K	0.35	100	.20	.13	.08	.076	.066	
70-ILBB0805ER202V	ILBB0805ER202V	2K	0.5	80	.20	.13	.08	.076	.066	

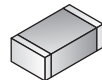


## ILB-1206 MULTILAYER FERRITE BEADS

DIMENSIONS: in.

### Features:

- High reliability
- Surface mountable
- Temp. range: -55°C to +125°C



For quantities greater than listed, call for quote.

### Environmental Specifications:

- Thermal shock: 50 cycles, -55°C to +125°C
- Humidity: 90%RH @ +40°C with 200mA DC current, 500 hours
- Load life: +90°C @ full rated current for 2000 hours



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MOUSER STOCK NO.	Vishay Part No.	Imp. (Ω)	Tol.	Frequency (MHz)	DCR Max (Ω)	Rated DC Current (mA)	Price Each			Reel Price Each 3000
							1	50	100	
70-ILB1206ER190V	ILB1206ER190V	19	±25%	100	.05	500	.24	.19	.17	.09
70-ILB1206ER260V	ILB1206ER260V	26	±25%	100	.05	500	.24	.19	.17	.09
70-ILB1206ER310V	ILB1206ER310V	31	±25%	100	.05	500	.24	.19	.17	.09
70-ILB1206ER500V	ILB1206ER500V	50	±25%	100	.1	350	.24	.19	.17	.09
70-ILB1206ER700V	ILB1206ER700V	70	±25%	100	.15	250	.24	.19	.17	.09
70-ILB1206ER121V	ILB1206ER121V	120	±25%	100	.2	250	.24	.19	.17	.09
70-ILB1206ER151V	ILB1206ER151V	150	±25%	100	.2	250	.24	.19	.17	.09
70-ILB1206ER301V	ILB1206ER301V	300	±25%	100	.3	250	.28	.23	.21	.11
70-ILB1206ER501V	ILB1206ER501V	500	±25%	100	.5	200	.28	.23	.21	.11
70-ILB1206ER601V	ILB1206ER601V	600	±25%	100	.5	200	.28	.23	.21	.11