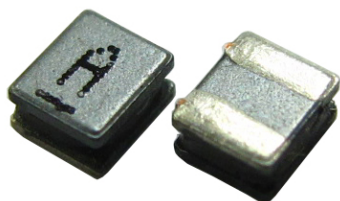


LVH Series



LVH series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for portable DC-DC converter applications.

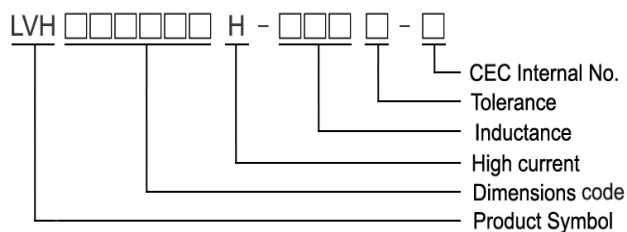
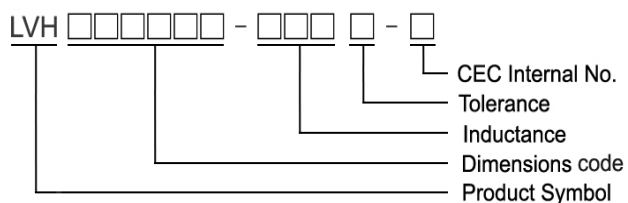
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded with magnetic resin
- Low profile, miniature package size and wide inductance range.
- Low DCR and high rated current.

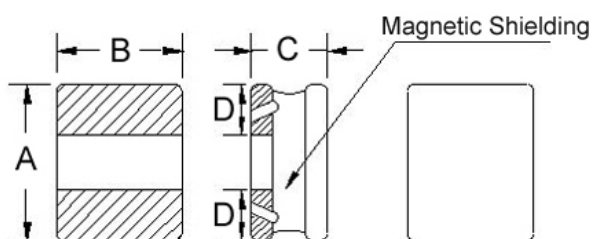
Applications

- Smart phone
- DSC
- Tablet PC and other portable devices
- DC/DC converters

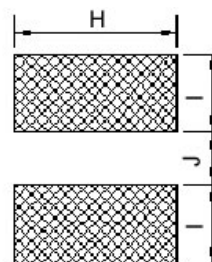
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	H	I	J
LVH201B10H	2.0±0.25	1.6±0.25	1.02 Max	0.6	1.8	0.8	0.8
LVH252A10H	2.5±0.25	2.0±0.25	1.02 Max	0.8	2.2	0.85	0.8
LVH252A12	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8
LVH252A12H	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8

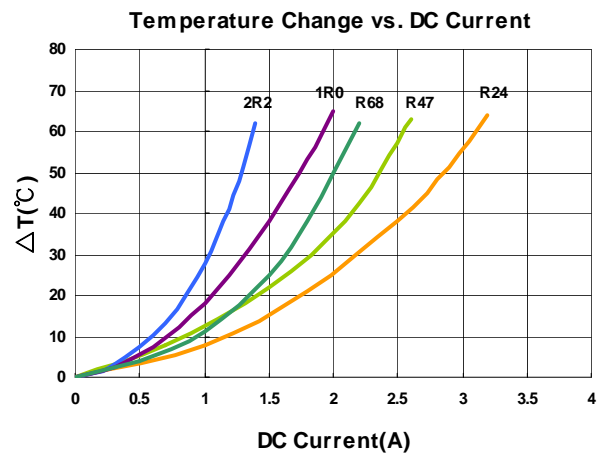
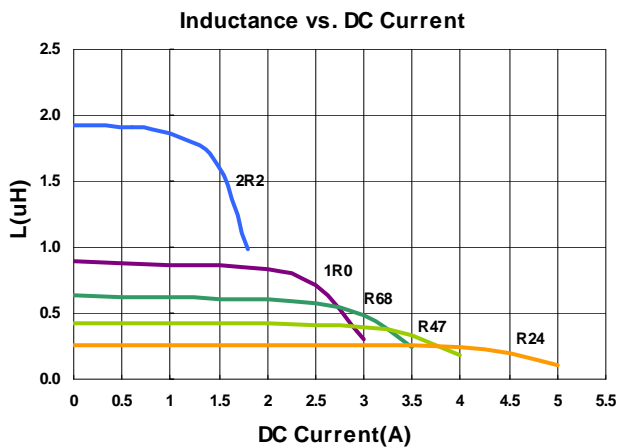
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)
LVH201B10H-R24□-N	0.24	20, 30	1	0.048	3700(3300)	2500(2100)
LVH201B10H-R33□-N	0.33	20, 30	1	0.048	3400(3000)	2500(2100)
LVH201B10H-R47□-N	0.47	20, 30	1	0.072	2900(2600)	2100(1800)
LVH201B10H-R56□-N	0.56	20, 30	1	0.072	2700(2400)	2100(1800)
LVH201B10H-R68□-N	0.68	20, 30	1	0.092	2500(2200)	1800(1500)
LVH201B10H-1R0□-N	1.0	20, 30	1	0.110	2200(2000)	1500(1200)
LVH201B10H-2R2□-N	2.2	20, 30	1	0.205	1400(1200)	1150(970)
LVH201B10H-4R7□-N	4.7	20, 30	1	0.520	900(800)	800(680)
LVH201B10H-100□-N	10	20, 30	1	1.100	620(550)	450(380)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
- L : Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
Isat & Irms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer



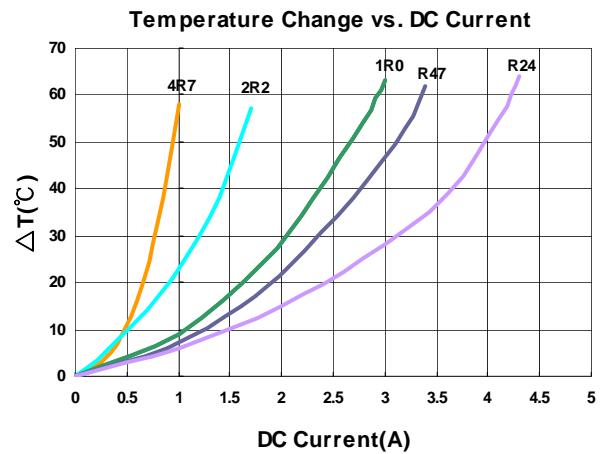
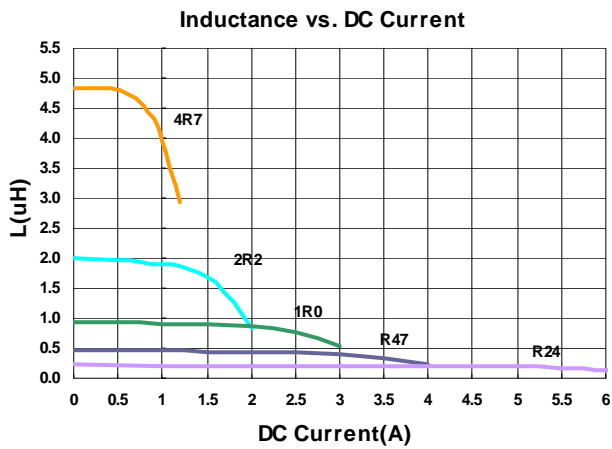
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)
LVH252A10H-R24□-N	0.24	20, 30	1	0.030	4700(4200)	3600(3000)
LVH252A10H-R47□-N	0.47	20, 30	1	0.043	3300(3000)	2700(2300)
LVH252A10H-R68□-N	0.68	20, 30	1	0.062	2800(2500)	2300(1900)
LVH252A10H-1R0□-N	1.0	20, 30	1	0.080	2300(2100)	1900(1600)
LVH252A10H-2R2□-N	2.2	20, 30	1	0.135	1600(1400)	1400(1100)
LVH252A10H-4R7□-N	4.7	20, 30	1	0.330	1000(900)	850(720)
LVH252A10H-100□-N	10	20, 30	1	0.670	720(640)	580(490)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
- L : Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
- RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
- Isat & Irms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer



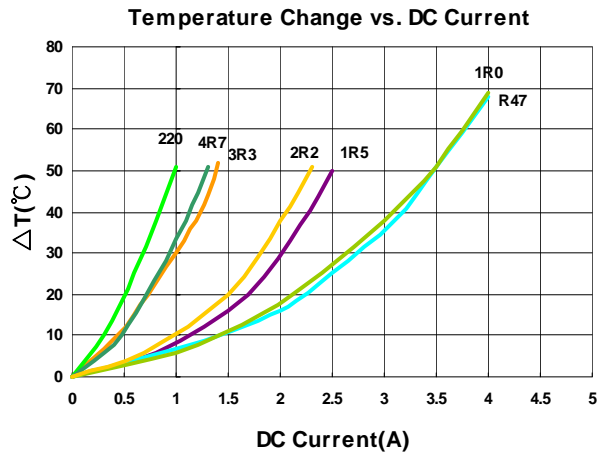
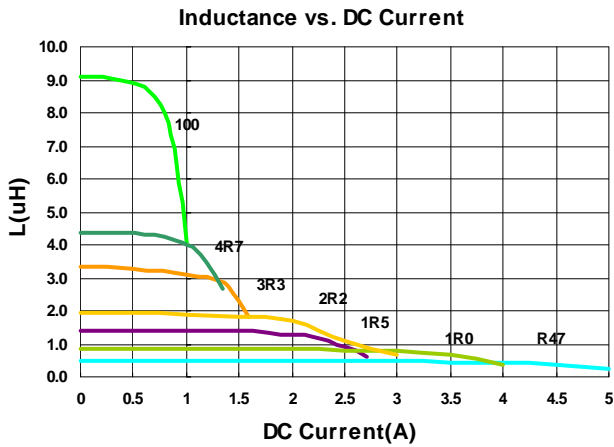
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)
LVH252A12H-R47□-N	0.47	20, 30	1	0.031	4100(3700)	3100(2600)
LVH252A12H-R68□-N	0.68	20, 30	1	0.031	3100(2900)	3100(2600)
LVH252A12H-1R0□-N	1.0	20, 30	1	0.049	3200(3000)	3000(2500)
LVH252A12H-1R5□-N	1.5	20, 30	1	0.088	2300(2100)	2200(1800)
LVH252A12H-2R2□-N	2.2	20, 30	1	0.099	2200(2000)	2000(1700)
LVH252A12H-3R3□-N	3.3	20, 30	1	0.190	1400(1200)	1200(1000)
LVH252A12H-4R7□-N	4.7	20, 30	1	0.235	1300(1100)	1100(930)
LVH252A12H-100□-N	10	20, 30	1	0.510	920(820)	800(680)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
- L : Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
- RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
- Isat & Irms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer



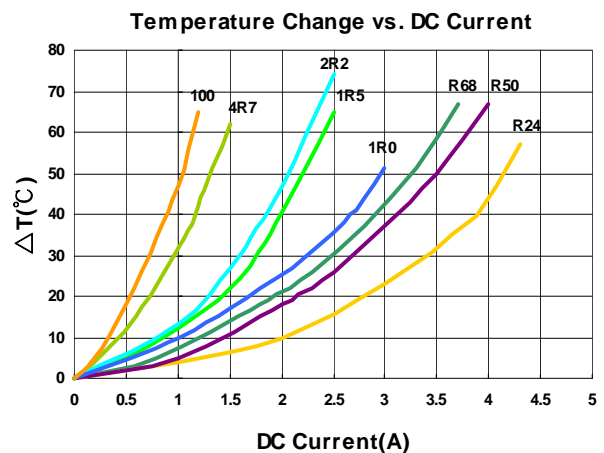
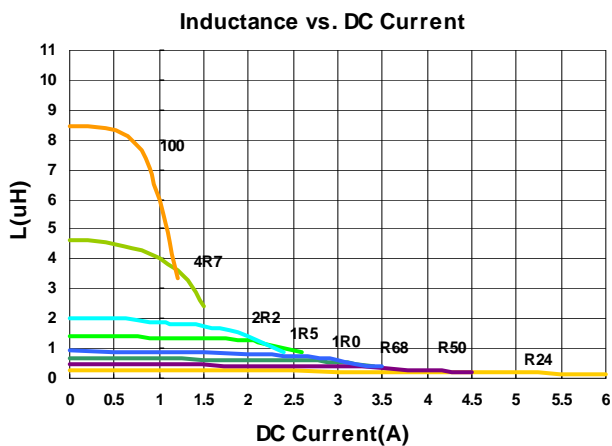
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)	Marking
LVH252A12-R24□-N	0.24	20, 30	1	0.021	4700(4200)	3800(3200)	E
LVH252A12-R33□-N	0.33	20, 30	1	0.027	4200(3700)	3000(2500)	G
LVH252A12-R50□-N	0.50	20, 30	1	0.027	3600(3400)	3000(2500)	D
LVH252A12-R68□-N	0.68	20, 30	1	0.036	2900(2600)	2800(2300)	H
LVH252A12-1R0□-N	1.0	20, 30	1	0.037	2700(2450)	2600(2200)	A
LVH252A12-1R5□-N	1.5	20, 30	1	0.075	2200(1900)	1900(1600)	I
LVH252A12-2R2□-N	2.2	20, 30	1	0.080	1900(1800)	1800(1500)	B
LVH252A12-4R7□-N	4.7	20, 30	1	0.195	1200(1000)	1100(930)	C
LVH252A12-100□-N	10	20, 30	1	0.400	900(800)	800(680)	F

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

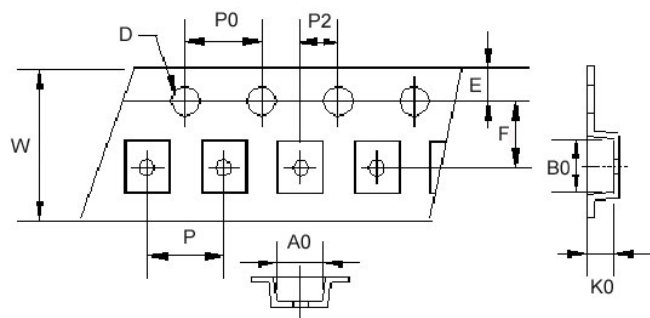
- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
- L : Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
Isat & Irms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer

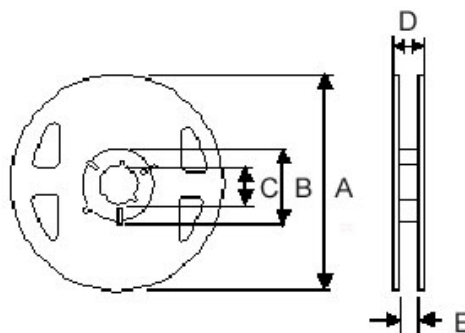


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions					Quantity
	A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
LVH201B10H	1.90	2.20	1.15	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVH252A10H	2.40	2.70	1.15	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVH252A12H	2.40	2.70	1.35	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVH252A12	2.40	2.70	1.35	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000