

LVN Series



LVN series, an automatic assembly power inductor, is suitable for the portable DC-DC converter application.

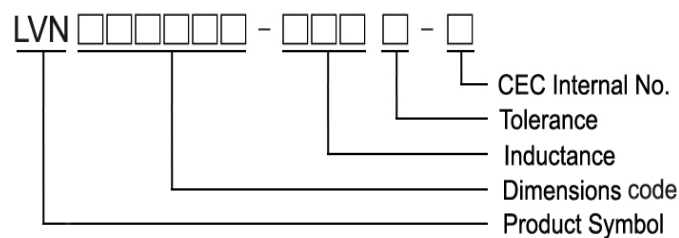
Features

- RoHS compliant
- Highly accurate dimensions can be mounted automatically.
- Terminals are highly resistant to pull forces.
- Highly reliable in environments of sudden temperature change

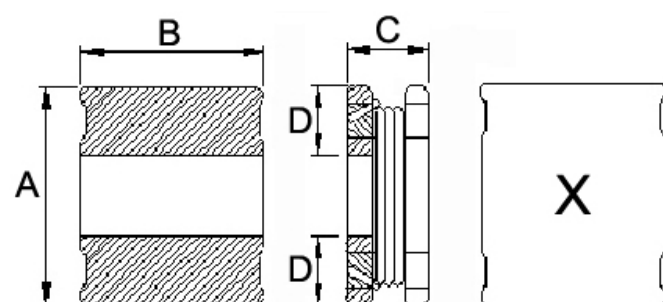
Applications

- Portable equipment such as, PDA,MP3,HDD, Mobil phone, DSC etc.
- Game Console.
- DC / DC converters.

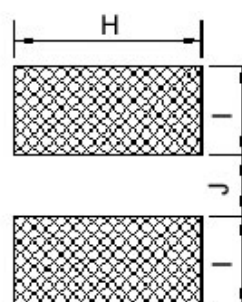
Product Identification



Shapes and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C Max	D	H	I	J
LVN201610	2.0±0.2	1.6±0.2	1.02	0.60	1.80	0.80	0.80
LVN252010	2.5±0.2	2.0±0.2	1.02	0.80	2.00	0.85	0.80

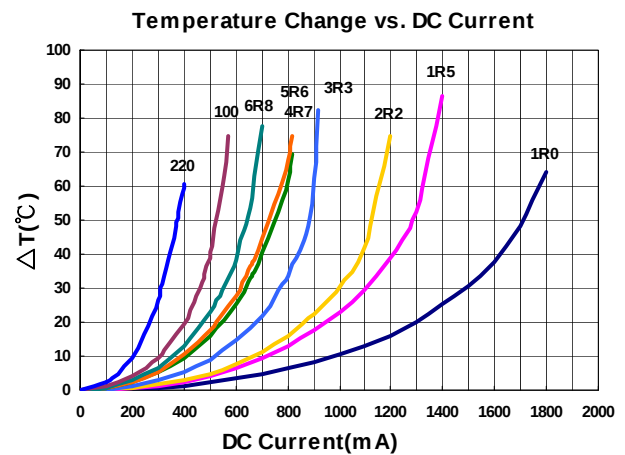
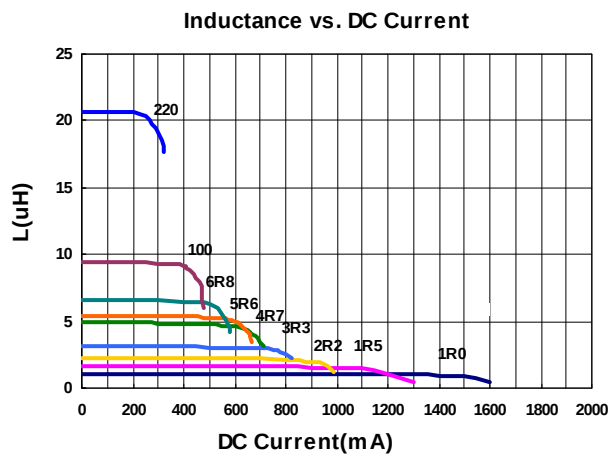
SMD Unshielded Power Inductors - LVN Series

Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)	Marking
LVN201610-1R0□-N	1.0	1	20, 30	0.19	1500(1200)	1600(1280)	A
LVN201610-1R5□-N	1.5	1	20, 30	0.29	1100(880)	1200(960)	B
LVN201610-2R2□-N	2.2	1	20, 30	0.36	950(760)	1000(800)	C
LVN201610-3R3□-N	3.3	1	20, 30	0.55	790(632)	820(656)	D
LVN201610-4R7□-N	4.7	1	20, 30	0.71	670(536)	700(560)	E
LVN201610-5R6□-N	5.6	1	20, 30	0.75	640(512)	670(536)	F
LVN201610-6R8□-N	6.8	1	20, 30	1.00	560(448)	600(480)	G
LVN201610-8R2□-N	8.2	1	20, 30	1.20	500(400)	520(416)	J
LVN201610-100□-N	10	1	20, 30	1.55	460(368)	490(392)	H
LVN201610-220□-N	22	1	20, 30	3.00	320(256)	330(264)	I

- When ordering, please specify tolerance and packaging codes.
- Tolerance : T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current.
- Irms for a 40°C rise above 25°C ambient.
- Operating temperature range from -40°C to 125°C . (Including self - temperature rise)

Test Instruments : HP4291A Material/Impedance Analyzer

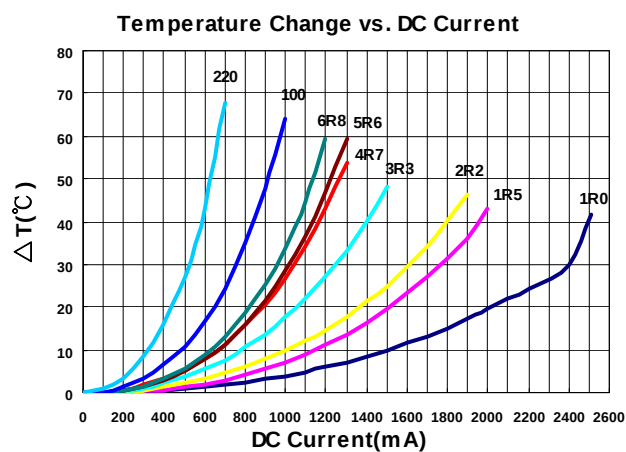
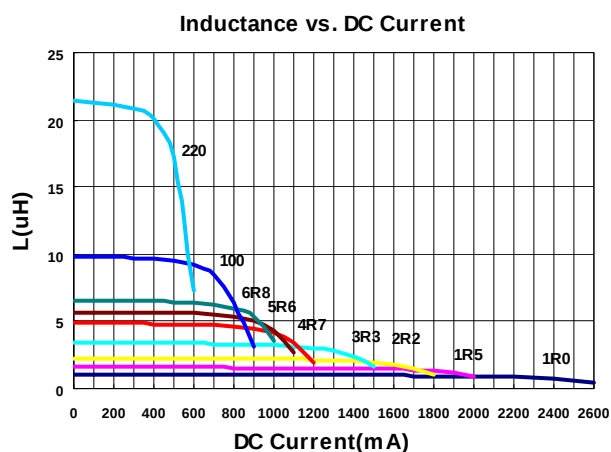


Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)	Marking
LVN252010-1R0□-N	1.0	1	20, 30	0.106	2000(1600)	2200(1760)	A
LVN252010-1R5□-N	1.5	1	20, 30	0.158	1700(1360)	1920(1536)	B
LVN252010-2R2□-N	2.2	1	20, 30	0.190	1420(1136)	1640(1312)	C
LVN252010-3R3□-N	3.3	1	20, 30	0.304	1160(928)	1340(1072)	D
LVN252010-4R7□-N	4.7	1	20, 30	0.450	920(736)	1080(864)	E
LVN252010-5R6□-N	5.6	1	20, 30	0.504	900(720)	1000(800)	F
LVN252010-6R8□-N	6.8	1	20, 30	0.635	820(656)	940(752)	G
LVN252010-100□-N	10	1	20, 30	0.807	680(544)	800(640)	H
LVN252010-220□-N	22	1	20, 30	1.80	460(368)	520(416)	I

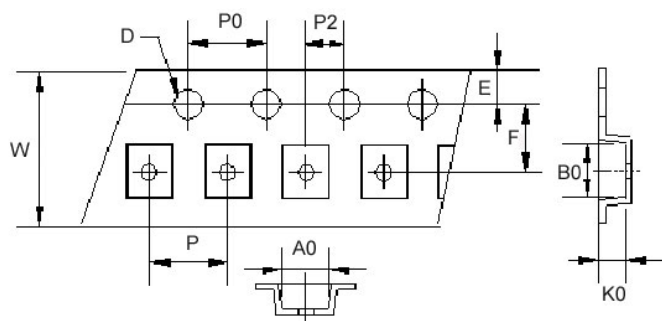
- When ordering, please specify tolerance and packaging codes.
- Tolerance : T = ±30% , M = ±20%
- Packaging: Clear tape and reel {standard}.
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current.
- Irms for a 40°C rise above 25°C ambient.
- Operating temperature range from -40°C to 125°C . (Including self - temperature rise)

Test Instruments : HP4291A Material/Impedance Analyzer

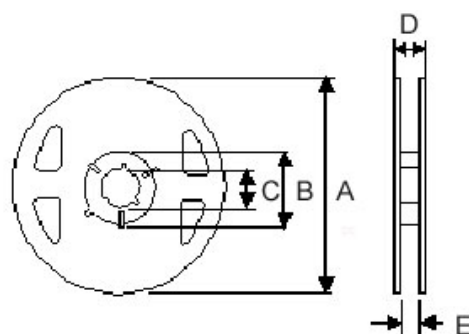


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions					Quantity PCS / Reel
	A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	
LVN201610	1.80	2.20	1.15	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVN252010	2.30	2.70	1.15	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000