

## LVF Series



LVF series, an automatic assembly power inductor, is shielded with magnetic resin and suitable for the portable DC-DC converter application.

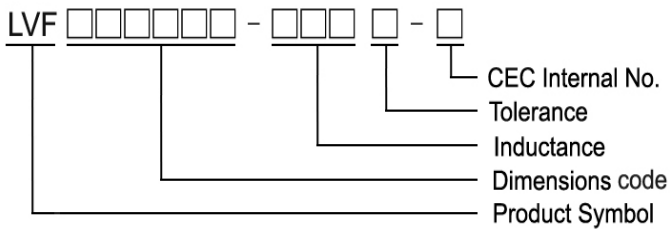
### Features

- RoHS compliant
- Low DC resistance and high current.
- Highly accurate dimensions can be mounted automatically
- Superior EMI electrical with ultra low radiation comparing to conventional shielded power inductors
- Halogen free

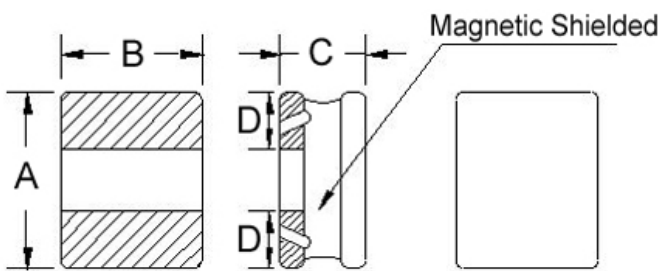
### Applications

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

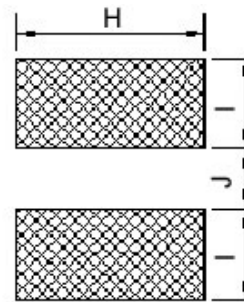
### Product Identification



### Shapes and Dimensions



### Recommended Pattern



Dimensions in mm

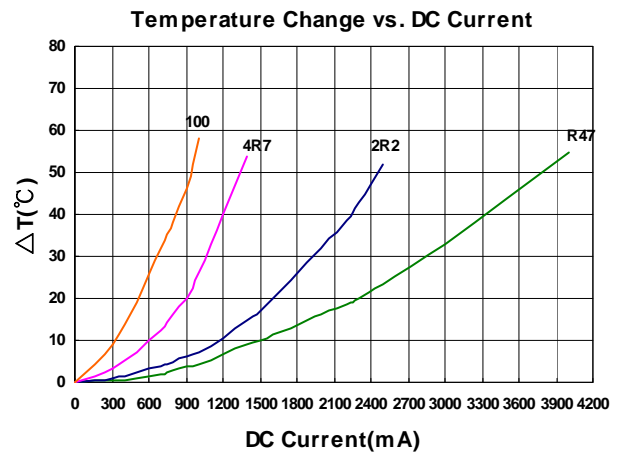
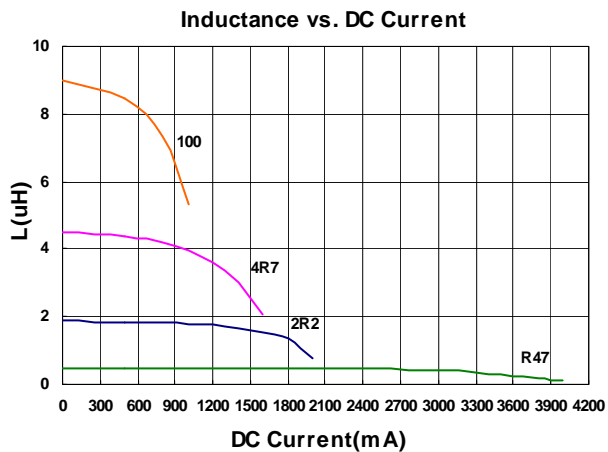
TYPE	A	B	C	D	H	I	J
LVF252A12	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8

## Electrical Characteristics

Part Number	Inductance ( $\mu\text{H}$ )	Test Frequency (MHz)	Tolerance ( $\pm\%$ )	RDC ( $\Omega$ ) $\pm 30\%$	Isat (mA)Typ	Irms (mA)Typ
LVF252A12-R47□-N	0.47	1	20, 30	0.027	3700	3100
LVF252A12-R50□-N	0.50	1	20, 30	0.028	3500	3000
LVF252A12-2R2□-N	2.2	1	20, 30	0.080	1850	2200
LVF252A12-4R7□-N	4.7	1	20, 30	0.190	1250	1100
LVF252A12-100□-N	10	1	20, 30	0.385	880	700

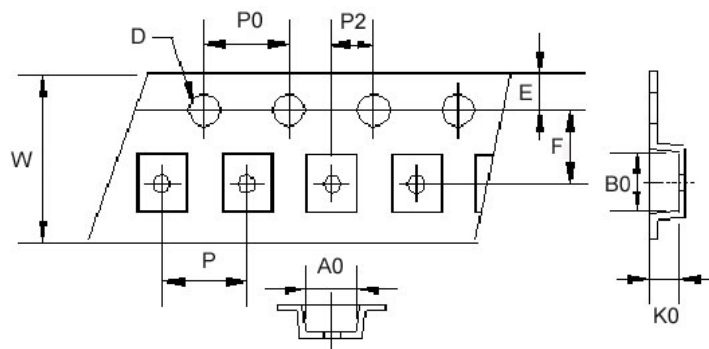
- When ordering, please specify tolerance and packaging codes.
- Tolerance : T =  $\pm 30\%$  , M =  $\pm 20\%$
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current.
- Irms for a 40°C rise above 25°C ambient.
- Operating temperature range from -25°C to 105°C. (Including self - temperature rise)

## Test Instruments : HP4284A Material/Impedance Analyzer

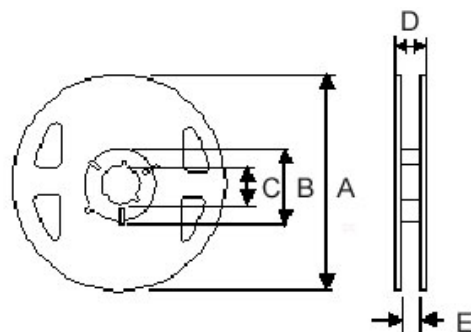


Packaging Specifications

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		
LVF252A12	2.40	2.70	1.30	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000	