ISO9001 & ISO14001 & TS16949 **CHILISIN ELECTRONICS CORP.**

RoHS & Halogen Free & REACH Compliance.

SPECIFICATION FOR APPROVAL

Customer： 各廠家

Customer P/N:

Drawing No：

Quantity： 0 **Pcs.** **Date：** 2018/10/24

Chilisin P/N： LVH252A12-1R0M-N

SPECIFICATION ACCEPTED BY:	
COMPONENT ENGINEER	
ELECTRICAL ENGINEER	
MECHANICAL ENGINEER	
APPROVED	
REJECTED	

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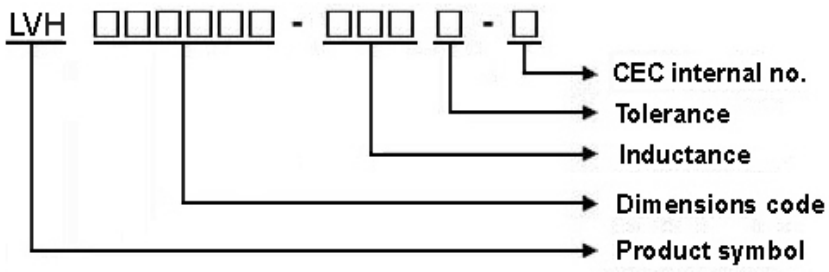
Drawn by	Checked by	Approved by
陳瑞揚 ryan.chen	**溫美玲 ling**	**陳瑞揚 ryan.chen**

LVH252A12 Series Specification

1 Scope:
This specification applies to Wire Wound Power Inductors

2 Part Numbering:

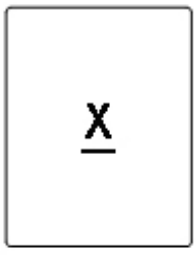


3 Rating:

Operating Temperature: －５５℃ ~ １２５℃(Including self - temperature rise)

Storage Temperature: ２０℃ ~ ２５℃ R.H.６５%(In Tape & Reel Condition)

4 Marking:



Ex : LVH252A12-1R0M-N

Marking : A

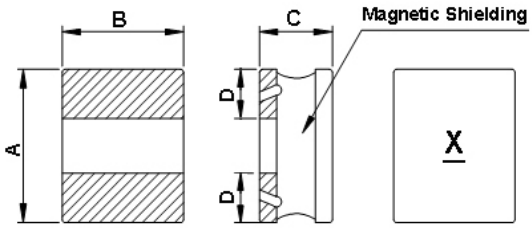
Marking color : Black

5 Standard Testing Condition

	Unless otherwise specified	In case of doubt
Temperature	Ordinary Temperature(15 to 35℃)	20 to 30℃
Humidity	Ordinary Humidity(25 to 85% RH)	50 to 80 %RH

LVH252A12 Series Specification

6 Configuration and Dimensions:



Dimensions in mm

TYPE	LVH252A12
A	2.5±0.25
B	2.0±0.25
C	1.2±0.05
D	0.8 typ.

7 Electrical Characteristics:

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(mA) Typ.(Max)	Irms(mA) Typ.(Max)	Tolerance (±%)	Marking
LVH252A12-R24□-N	0.24	1MHz,200mV	0.021	4700(4200)	3800(3200)	20,30	E
LVH252A12-R33□-N	0.33	1MHz,200mV	0.027	4200(3700)	3000(2500)	20,30	G
LVH252A12-R47□-N	0.47	1MHz,200mV	0.027	3600(3400)	3000(2500)	20,30	J
LVH252A12-R50□-N	0.5	1MHz,200mV	0.027	3600(3400)	3000(2500)	20,30	D
LVH252A12-R68□-N	0.68	1MHz,200mV	0.036	2900(2600)	2800(2300)	20,30	H
LVH252A12-1R0□-N	1	1MHz,200mV	0.037	2700(2450)	2600(2200)	20,30	A
LVH252A12-1R5□-N	1.5	1MHz,200mV	0.075	2200(1900)	1900(1600)	20,30	I
LVH252A12-2R2□-N	2.2	1MHz,200mV	0.08	1900(1800)	1800(1500)	20,30	B
LVH252A12-4R7□-N	4.7	1MHz,200mV	0.195	1200(1000)	1100(930)	20,30	C
LVH252A12-100□-N	10	1MHz,200mV	0.4	900(800)	800(680)	20,30	F
LVH252A12-330□-N	33	1MHz,200mV	1.55	430(380)	380(340)	20,30	L
LVH252A12-470□-N	47	1MHz,200mV	1.7	390(350)	340(300)	20,30	K

NOTE: □-tolerance M=±20% / T=±30%

1.Operating temperature range －５５℃ ~ １２５℃(Including self - temperature rise)

2.Isat for Inductance drop 30% from its value without current.

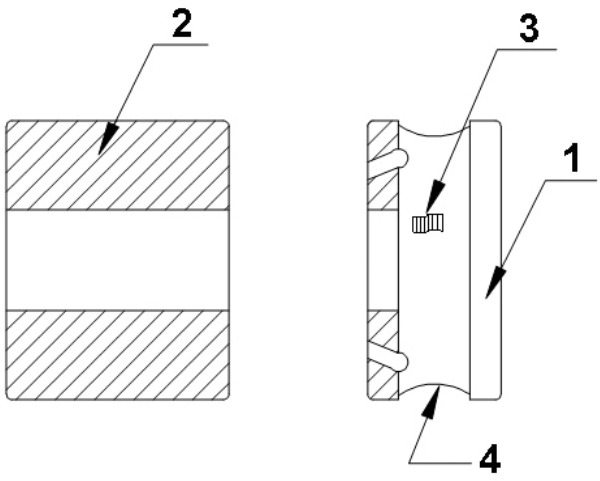
3.Irms for a 40℃ temperature rise from 25℃ ambient.

"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)

LVH252A12 Series Specification

8 LVH252A12 Series

8.1 Construction:



8.2 Material List:

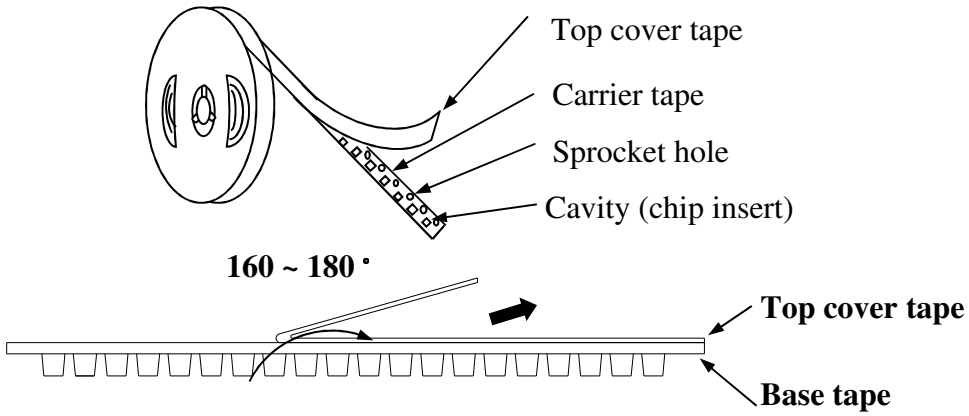
No	Part	Material
1	CORE	FERRITE
2	TERMINAL	Ag/Cu/Ni/Sn
3	WIRE	Grade 180
4	EPOXY	Magnetic powder resin

LVH252A12 Series Specification

9 Packaging:

9.1 Packaging -Cover tape

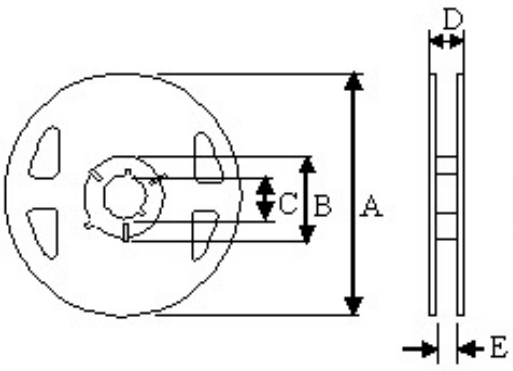
The force for tearing off cover tape is 10 to 100 grams in the arrow direction.



9.2 Packaging Quantity

TYPE	PCS/REEL
LVH252A12	2000

9.3 Reel Dimensions



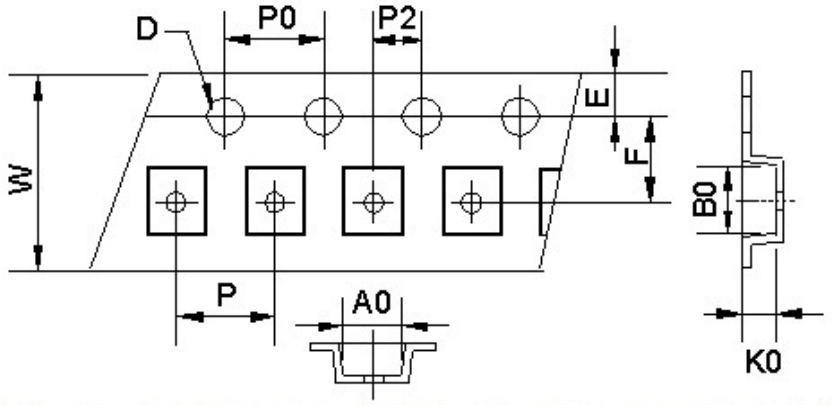
Dimensions in mm

TYPE	A	B	C	D	E
LVH252A12	180	60	13	14.4	8.4

LVH252A12 Series Specification

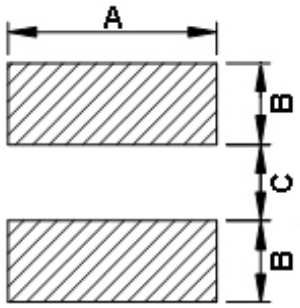
9 Packaging:

9.4 Tape Dimensions in mm



TYPE	A0	B0	K0	D	E	F	W	P	P0	P2
LVH252A12	2.4	2.75	1.35	1.55	1.75	3.5	8	4	4	2

10 Recommended Land Pattern:



Dimensions in mm

TYPE	A	B	C
LVH252A12	2.2	0.85	0.8

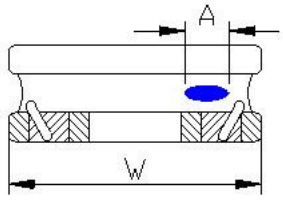
11 Note:

1. Please make sure that your product has been evaluated and confirmed against your specifications when our product is mounted to your product.
2. Do not knock nor drop.
3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose,under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)
5. The moisture sensitivity level (MSL) of products is classified as level 1.

LVH252A12 Series Specification

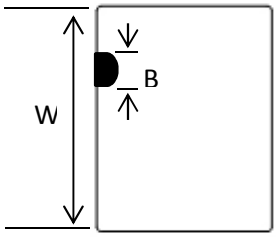
11 Note:

6. Void Appearance tolerance Limit



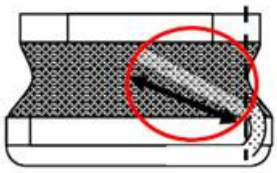
Exposed wire tolerance limit of coating resin part on product side.
The unilateral should be no more than two holes.

A≦ W/2	GOOD
A＞ W/2	NG



The appearance standard pf the chipping size in top side.

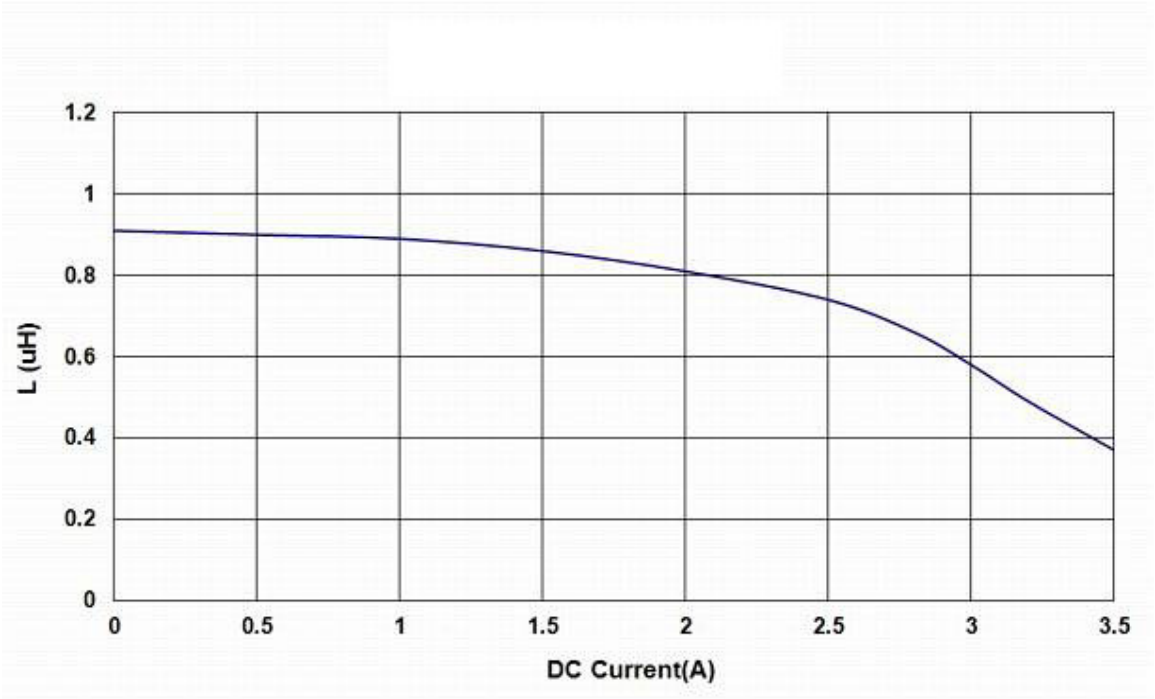
B≦ W/5	GOOD
B＞ W/5	NG

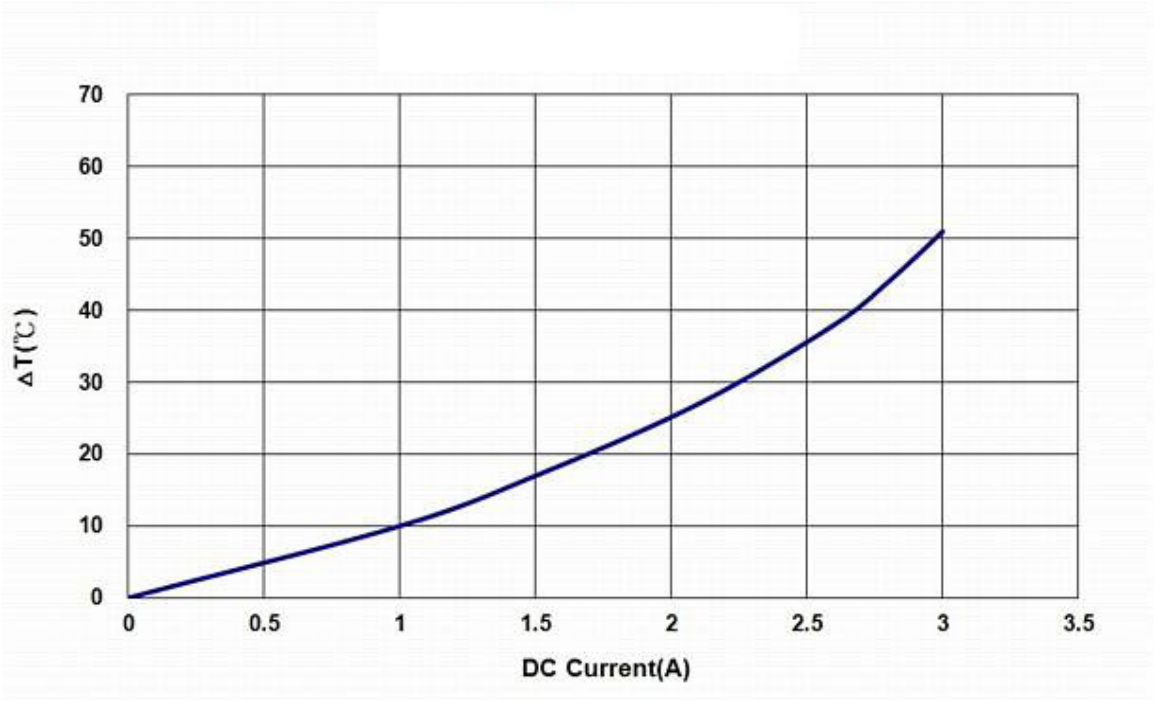


External appearance criterion for wxposed wire
Exposed end of the winding wire at the side should be acceptable.

LVH252A12 Series Specification

12 Graph: LVH252A12-1R0M-N





Temperature test conditions:

1. Start as the atmosphere temp. @25℃.
2. Take the reading once it becomes stable.
3. Need to wait 90Sec at least, then change to the next applied current value.

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