

深圳市方磁電子有限公司
SHENZHEN FOUNDS ELECTRONICS CO., LTD

【物料承認書】

APPROVAL SHEET

客戶 (Customer) : _____

產品名稱 (Description) : Molding Power Inductor

客戶料號 (Cus P/N) : _____

料號 (Part NO) : HCD252012A-1R0M-A8S

日期 (Date) : 2020/12/13

版本 (Version) : **A1**

核准 APPROVED BY	審核 CHECKED BY	製作 DRAWN BY
TopoCheng	InhenHuang	AbbyShi

Please sign back after confirmation:

Client signature: Qualified Unqualified

批准 APPROVAL	審核 CHECKED	檢驗 CONFORM

地址 (Address) : 深圳市寶安區新安街道裕安二路

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<http://www.ele-founds.com>



Change record

Rev.	Reason and content of change	Date	Prepared	Approved
A1	The new release	2020/12/13	AbbyShi	InhenHuang

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.

HCD Series



HCD Series provides high current in compact package size with magnetically shielded construction. This power inductor is an excellent power solution for space-limited devices.

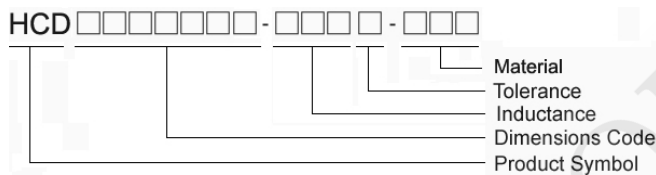
Features

- RoHS, Halogen Free and REACH Compliance
- Monolithic, magnetically shielded
- Capable for large current

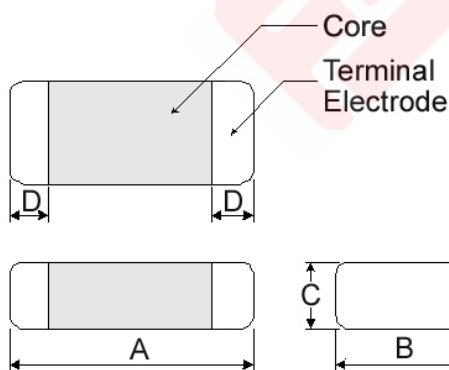
Applications

- Smartphones, tablets and wearable devices
- HDD, SSD and PC peripheral devices
- DSC, camcoders
- PND
- DC/DC converters

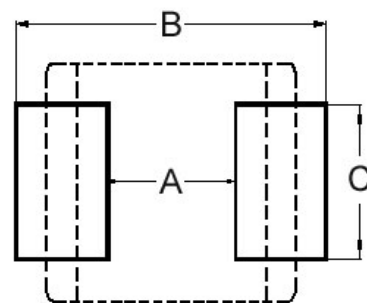
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
201610	2.0±0.2	1.6±0.2	1.0Max	0.5±0.3
201612	2.0±0.2	1.6±0.2	1.2Max	0.5±0.3
252010	2.5±0.2	2.0±0.2	1.0Max	0.6±0.3
252012	2.5±0.2	2.0±0.2	1.2Max	0.6±0.3
322510	3.2±0.3	2.5±0.3	1.0Max	0.5±0.3
322512	3.2±0.3	2.5±0.3	1.2Max	0.5±0.3

Dimensions in mm

TYPE	A	B	C
201610	0.7	2.3	1.8
201612	0.7	2.3	1.8
252010	1.2	2.8	2.3
252012	1.2	2.8	2.3
322510	1.7	3.5	2.8
322512	1.7	3.5	2.8

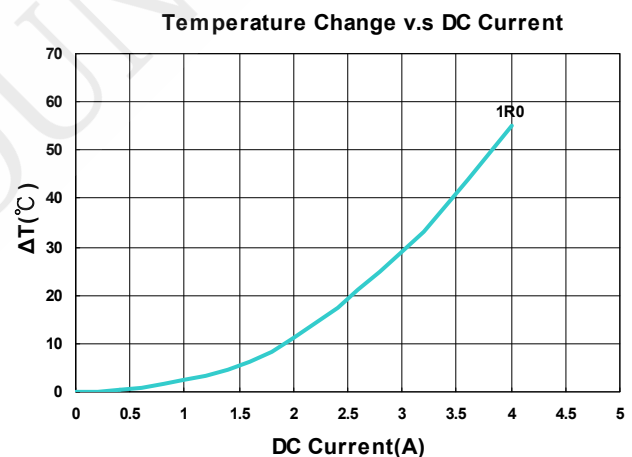
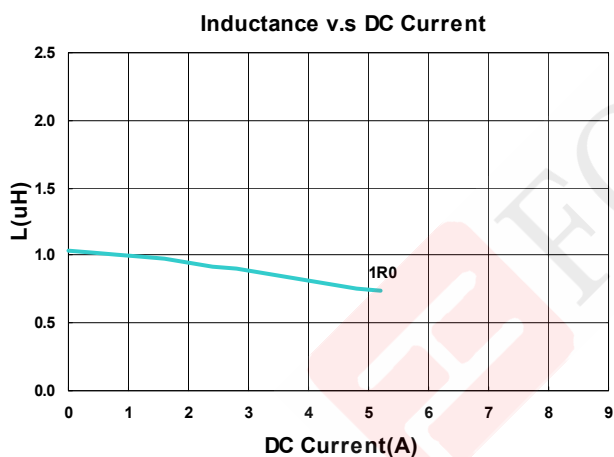
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
HCD252012A-1R0M-A8S	1.0	20	2	59(45)	4.0(5.0)	3.0(3.5)

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

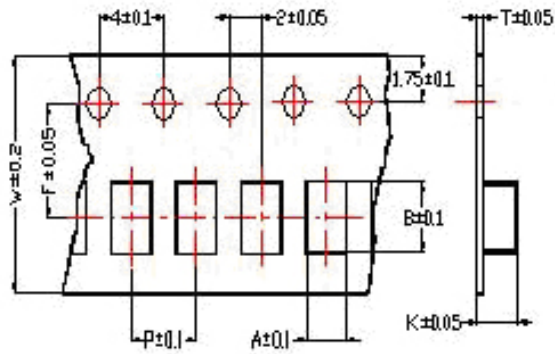
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Absolute maximum voltage 25VDC
- Measure Equipment :
 - L : Agilent E4991/HP4286A+16197A (or equivalent), 2MHz 0.2V
 - RDC : CHEN HWA502BC/HP4338B (or equivalent)
 - Isat : Agilent E4980A+HP42841A (or equivalent)
 - I rms : Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments : E4991A Impedance / Material Analyzer

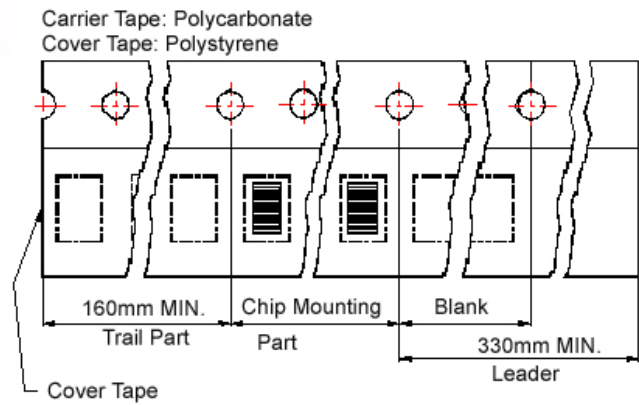


Packaging Specifications

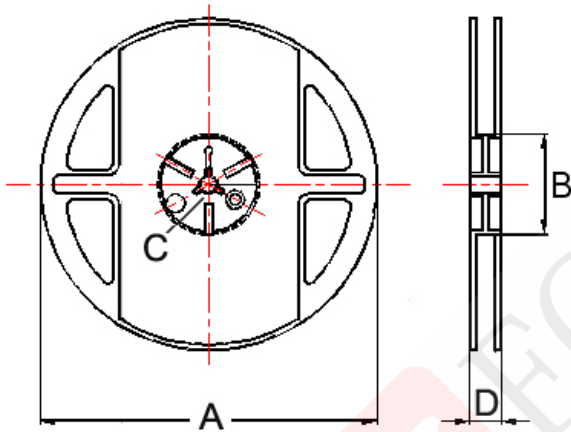
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	A	B	T	W	P	F	K	A	B	C	D	
201610	1.80	2.20	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
201612	1.80	2.20	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
252010	2.25	2.80	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
252012	2.25	2.80	0.22	8	4	3.5	1.35	178	60	12	1.5	3000
322510	2.80	3.55	0.23	8	4	3.5	1.20	178	60	12	1.5	3000
322512	2.80	3.50	0.23	8	4	3.5	1.34	178	60	12	1.5	3000