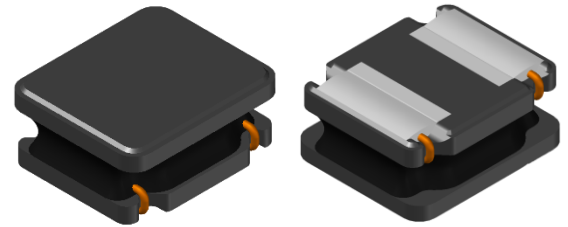


# CMI-DSS252012NH-SERIES

## Features

- ▶ Small and Low profile inductor.
- ▶ It corresponds to High current.
- ▶ Simple and Shield structure.
- ▶ Takes up less PCB real estate and save more power.
- ▶ Available tape and reel for auto insertion.
- ▶ Available in RoHs compliant.
- ▶ Halogen-Free.

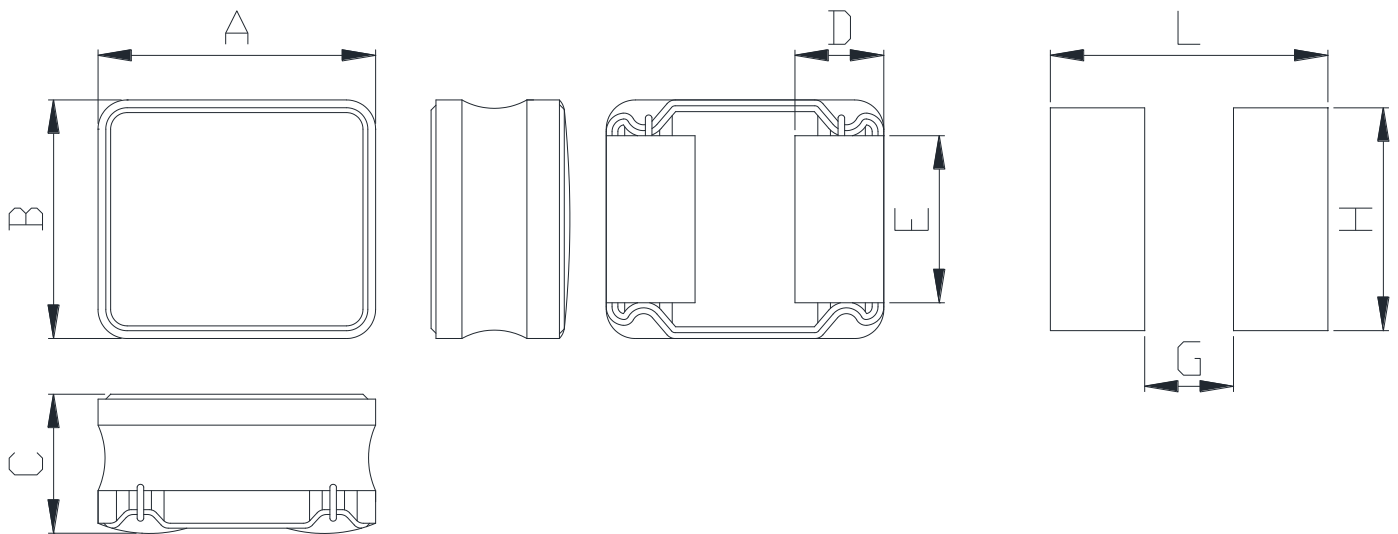


## Applications

- ▶ For small DC/DC converter (cellular Phone, LCD/LED/OLED display etc).

## Dimension (Unit:mm)

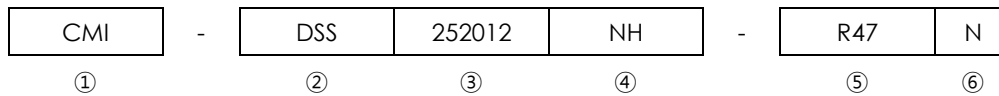
## Land Pattern (Unit:mm)



A	B	C	D	E	G	H	L
2.5 ±0.2	2.0 ±0.2	1.25 Max.	0.8 ±0.2	1.5 ±0.2	0.8	2.0	2.5

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## Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Drum core Square shape Silver paste power inductor
- ③ Core Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (0.47uH)
- ⑥ Inductance tolerance (±30%)

## Specifications

Part Number	Inductance (μH) ±20%	DCR(mΩ) Max.(Typ.)	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-DSS252012NH-R24M	0.24	23(19)	4.10(4.80)	4.10(4.50)	1M
CMI-DSS252012NH-R33M	0.33	31(26)	4.00(4.70)	3.35(3.70)	1M
CMI-DSS252012NH-R47M	0.47	36(31)	3.80(4.50)	3.00(3.30)	1M
CMI-DSS252012NH-R56M	0.56	47(38)	3.60(4.20)	2.30(2.50)	1M
CMI-DSS252012NH-R68M	0.68	47(38)	3.00(3.30)	2.30(2.50)	1M
CMI-DSS252012NH-1R0M	1.0	60(50)	2.25(2.50)	2.30(2.50)	1M
CMI-DSS252012NH-1R2M	1.2	78(65)	2.20(2.50)	2.00(2.20)	1M
CMI-DSS252012NH-1R5M	1.5	90(75)	2.00(2.35)	1.80(2.00)	1M
CMI-DSS252012NH-1R8M	1.8	108(93)	1.95(2.20)	1.75(1.90)	1M
CMI-DSS252012NH-2R2M	2.2	108(93)	1.75(1.90)	1.75(1.90)	1M
CMI-DSS252012NH-2R7M	2.7	156(130)	1.30(1.60)	1.40(1.50)	1M
CMI-DSS252012NH-3R3M	3.3	156(130)	1.20(1.35)	1.40(1.50)	1M
CMI-DSS252012NH-4R7M	4.7	228(190)	1.10(1.20)	1.10(1.20)	1M
CMI-DSS252012NH-5R6M	5.6	330(255)	1.00(1.10)	1.00(1.15)	1M
CMI-DSS252012NH-6R8M	6.8	360(300)	0.90(1.10)	0.95(1.05)	1M
CMI-DSS252012NH-100M	10	522(435)	0.70(0.85)	0.78(0.86)	1M
CMI-DSS252012NH-120M	12	750(600)	0.65(0.80)	0.65(0.78)	1M
CMI-DSS252012NH-150M	15	1000(700)	0.60(0.70)	0.50(0.60)	1M

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Part Number	Inductance (µH) ±20%	DCR(mΩ) Max.(Typ.)	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-DSS252012NH-220M	22	1290(1000)	0.45(0.55)	0.48(0.55)	1M

- Isat: When based on the inductance change rate (Approximately 30% below in the initial value)
- Itemp: When based on the temperature increase (Temperature increase of approximately 40°C by self heating)
- Operating Temperature Range (including self temperature) : -40°C ~ +125 °c

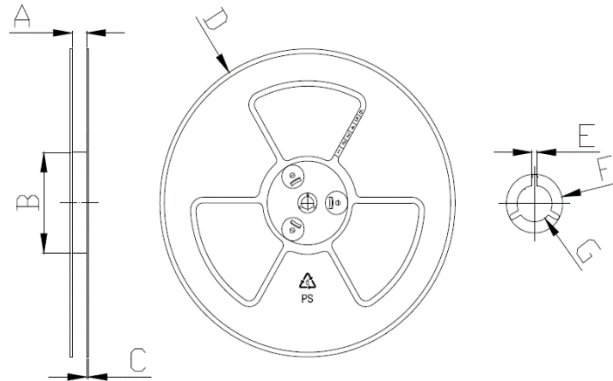
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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## Packaging

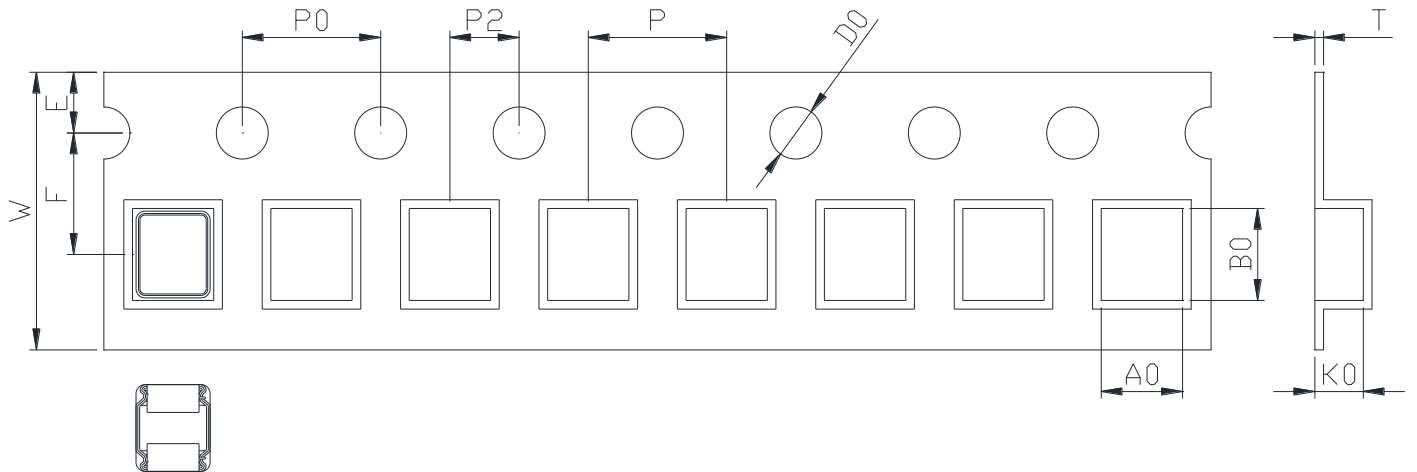
(1) Package quantity : 2,000 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
9.00	60.0	0.90	178.0	2.30	20.70	13.00
+0.50	+1.00	+0.10	+1.00	+0.30	+0.80	+0.40
-0.50	-1.00	-0.10	-1.00	-0.30	-0.80	-0.40

(3) Tape Dimensions



W	A0	B0	K0	E	F	P	P0	P2	D0	T
8.00	2.35	2.65	1.40	1.75	3.50	4.00	4.00	2.00	1.50	0.25
+0.30	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.05
-0.30	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.05

Korea Sales Office (KOREA) +82)31-904-1444  
 China Sales Office (CHINA) +86)0758-683-1444  
 Hungary Sales office (EUROPE) +36)1-404-5832

H.K Sales Office (HONGKONG) +852)2711-5551  
 LA Sales Office (USA) +1)714-616-6989

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