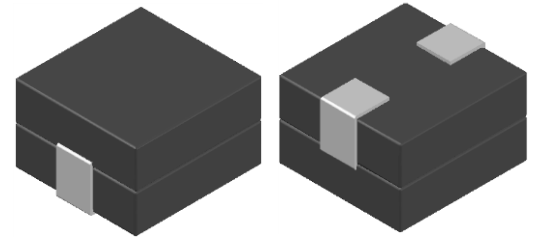


# CMI-CMPLD13080M1-SERIES

## Features

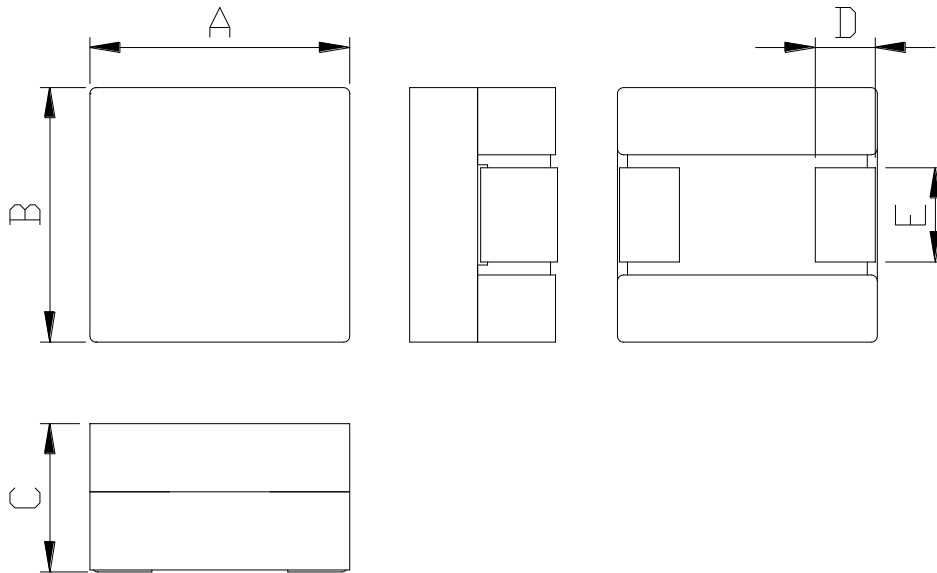
- ▶ High Current and Low DCR.
- ▶ Ferrite Core type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ RoHS compliant.
- ▶ Halogen-Free.
- ▶ AEC-Q200 qualified.



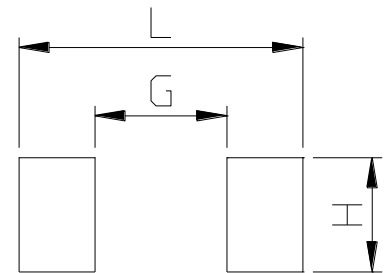
## Applications

- ▶ For DC/DC converter, AV equipment, digital consumer electronics.

## Dimension (Unit:mm)

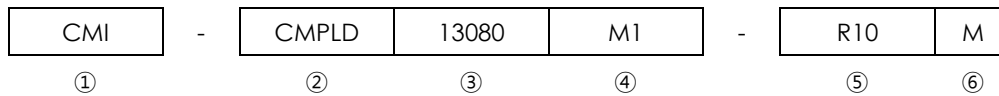


## Land Pattern (Unit:mm)



A	B	C	D	E	L	G	H
13.2 ±0.5	12.7 ±0.4	8.0 Max.	4.0 ±0.3	4.7 ±0.3	14.2	4.6	5.7

## Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Car Magnetic Pin Low Dcr power inductor
- ③ Core Size (unit:mm)
- ④ Material
- ⑤ Typical inductance value (0.1 uH)
- ⑥ Inductance tolerance (±20%)

## Specifications

Part Number	Inductance (uH) ±20%	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-CMPLD13080M1-R10M	0.10	0.5(0.3)	100.0(110.0)	80.0(90.0)	100K
CMI-CMPLD13080M1-R22M	0.22	0.5(0.3)	80.0(90.0)	80.0(90.0)	100K
CMI-CMPLD13080M1-R30M	0.30	0.5(0.3)	47.0(52.0)	80.0(90.0)	100K
CMI-CMPLD13080M1-R50M	0.50	0.5(0.3)	28.0(33.0)	80.0(90.0)	100K

- 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 ~ +165 °c

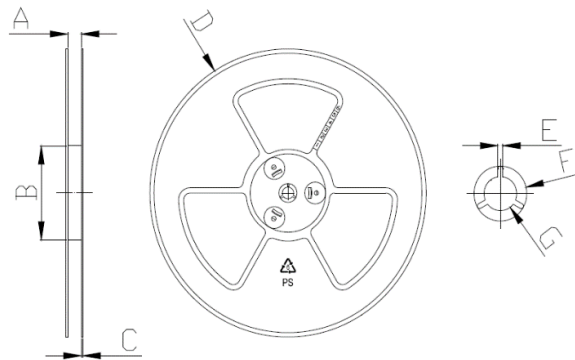
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

- **You can also contact us by e-mail : [coilmaster@coilmaster.com](mailto:coilmaster@coilmaster.com)**
- All specifications are subject to change without notice.
- Update date : 2024.03.11

## Packaging

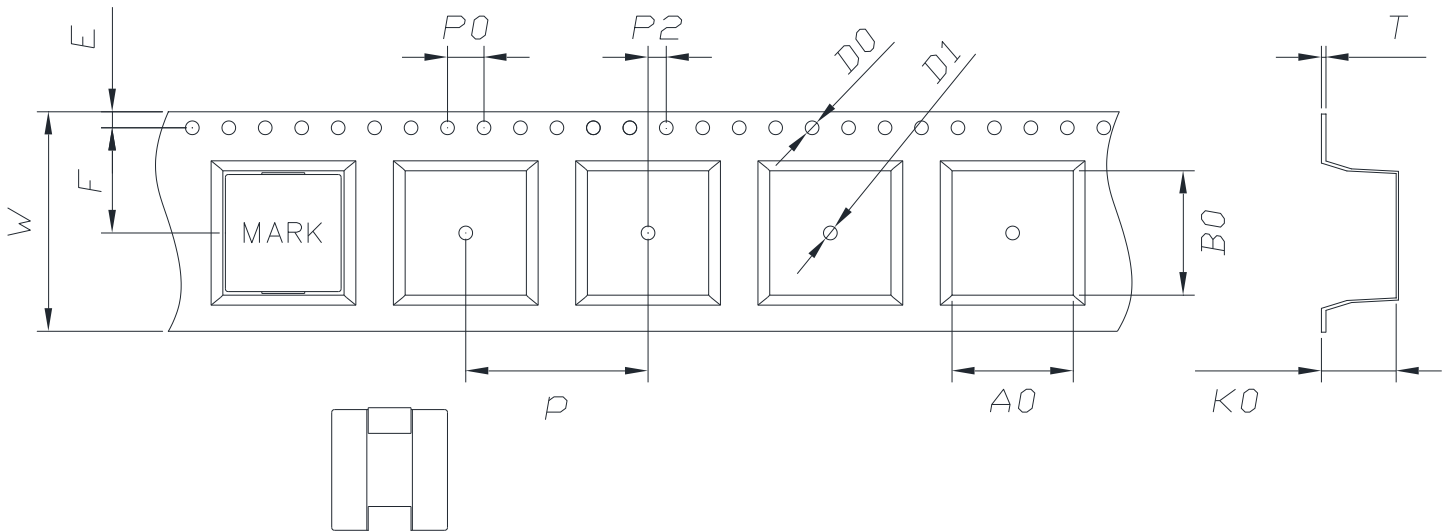
(1) Package quantity : 300 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
24.50	100.0	2.30	330.0	2.30	21.50	13.00
+0.50	+1.00	+0.20	+3.00	+0.30	+0.30	+0.50
-0.50	-1.00	-0.20	-3.00	-0.30	-0.30	-0.20

(3) Tape Dimensions



W	A0	B0	K0	E	F	P	P0	P2	D0/D1	T
24.00	13.30	13.60	8.20	1.75	11.50	20.00	4.00	2.00	1.50	0.50
+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	-0.00	-0.05

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