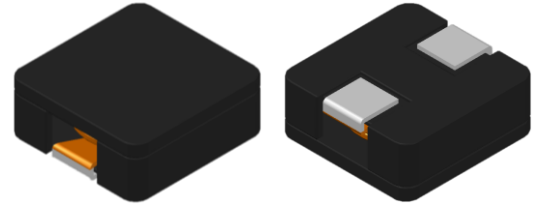




# CMI-CSSMF12075MH-SERIES

## Features

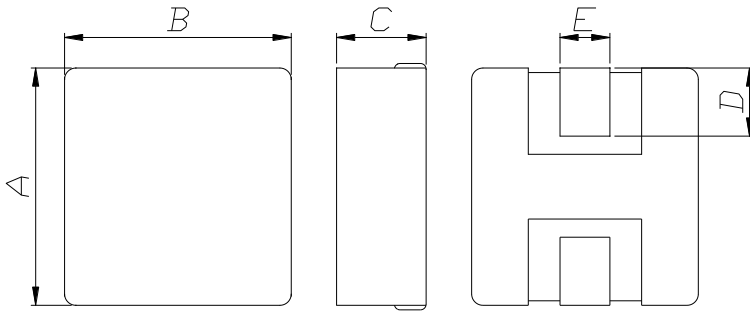
- ▶ High current and low profile/ Low DC resistance
- ▶ Magnetic shielding for high-density packaging
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free / RoHS compliant.
- ▶ AEC-Q200 qualified.



## Applications

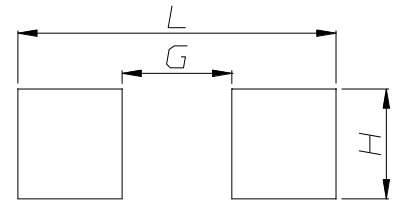
- ▶ Equipment using for automobile (ECM, Airbags, Headlights, Electronic Power Steering, Motors, ABS, other)  
Soft saturation makes them ideal for VRD/VRM applications

Dimension (Unit:mm)



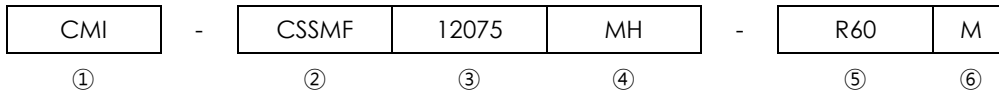
Value	A	B	C	D	E
R60~390	13.8	12.8±0.5	7.3±0.3	3.0±0.5	2.5±0.3
470~560	Max.				2.0±0.3

Land Pattern (Unit:mm)



L	G	H
15.0	6.0	5.0

## Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Metal material Square Shield Flat wire type Power inductor
- ③ Core Size (unit:mm)
- ④ Material
- ⑤ Typical inductance value (0.60uH)
- ⑥ Inductance tolerance (±20%)

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## Specifications

Part Number	Inductance (uH) ±20%	DCR(mohm) Max.(Typ.)	Isat(A) Typ.	Irms(A) Typ.	Test Frequency (Hz)
CMI-CSSMF12075MH-R60M	0.60	0.55(0.48)	60.00	36.00	100k
CMI-CSSMF12075MH-1R0M	1.00	1.00(0.84)	50.00	32.00	100k
CMI-CSSMF12075MH-1R2M	1.20	1.61(1.41)	45.00	28.00	100k
CMI-CSSMF12075MH-1R5M	1.50	1.61(1.41)	42.00	28.00	100k
CMI-CSSMF12075MH-2R2M	2.20	2.45(2.10)	36.00	24.00	100k
CMI-CSSMF12075MH-3R3M	3.30	3.10(2.70)	30.00	22.00	100k
CMI-CSSMF12075MH-4R7M	4.70	4.25(3.68)	25.00	19.00	100k
CMI-CSSMF12075MH-5R6M	5.60	5.29(4.60)	22.00	17.00	100k
CMI-CSSMF12075MH-6R8M	6.80	6.95(6.05)	20.00	14.00	100k
CMI-CSSMF12075MH-8R2M	8.20	8.10(7.03)	18.00	12.00	100k
CMI-CSSMF12075MH-100M	10.0	10.10(8.77)	16.00	11.00	100k
CMI-CSSMF12075MH-120M	12.0	11.70(10.20)	13.00	10.00	100k
CMI-CSSMF12075MH-150M	15.0	13.80(12.00)	11.00	9.30	100k
CMI-CSSMF12075MH-180M	18.0	16.70(14.50)	10.00	8.50	100k
CMI-CSSMF12075MH-220M	22.0	17.80(15.50)	9.50	8.00	100k
CMI-CSSMF12075MH-270M	27.0	26.50(23.00)	8.50	7.00	100k
CMI-CSSMF12075MH-330M	33.0	32.50(28.30)	8.00	6.00	100k
CMI-CSSMF12075MH-390M	39.0	36.00(31.30)	6.80	5.50	100k
CMI-CSSMF12075MH-470M	47.0	46.00(40.00)	6.00	5.00	100k
CMI-CSSMF12075MH-560M	56.0	69.00(60.00)	5.70	4.00	100k

- Isat: When based on the inductance change rate (approximately 30% below in the initial value)
- Irms: When based on the temperature increase (Temperature increase of approximately 50°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.

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## Packaging

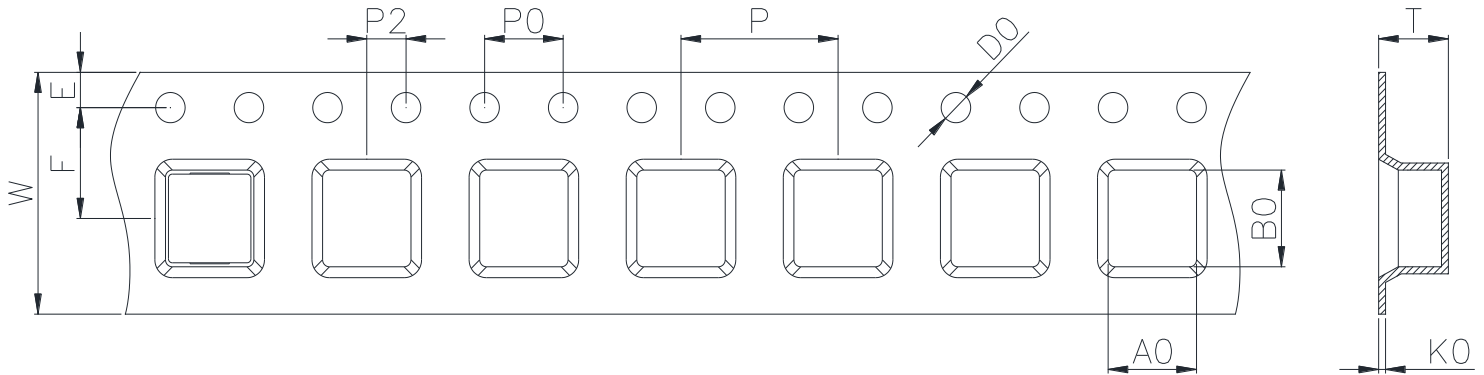
(1) Package quantity : 300 (pcs/reel)

(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	13.60	13.70	7.80	1.75	11.50	16.00	4.00	2.00	1.50	0.40
+0.30	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.05	+0.05
-0.30	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.05	-0.05

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