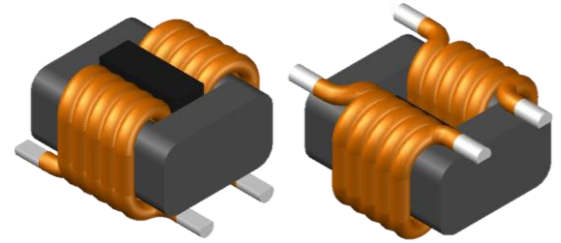


CME-CPCF1613PN-SERIES

Common mode filter for Power line

Features

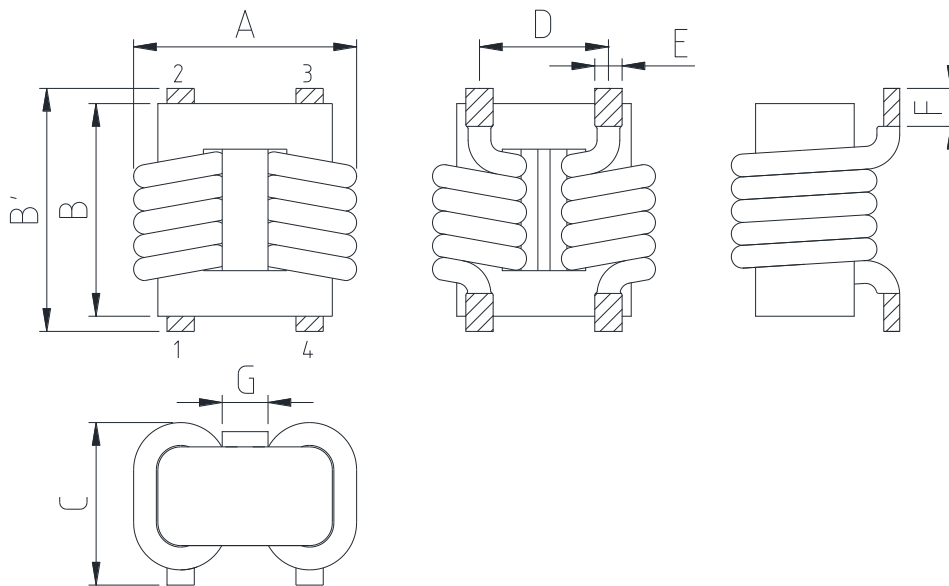
- ▶ Due to the compact design, it is suitable for surface mount.
- ▶ Custom options for inductance, impedance, DCR and current rating are available.
- ▶ Have achieved miniaturization while keeping Characteristics by adoption of exclusive square type closed magnetic cores.



Applications

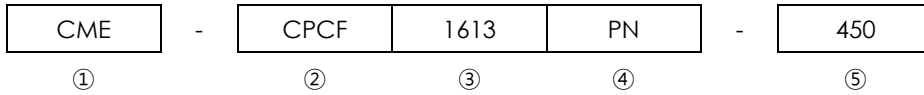
- ▶ High current and high temperature applications
- ▶ DC/DC converters.
- ▶ EMI Filters
- ▶ Motor noise suppression.

Dimension (Unit:mm)



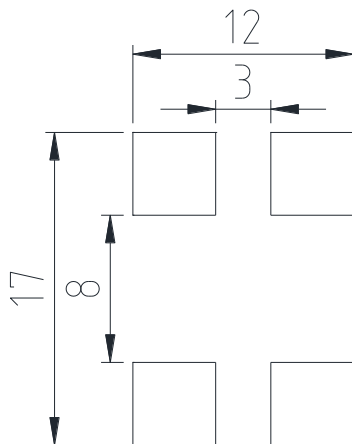
Value	A	B'	B	C	D	E	F	G
450	16.5 Max.	16.5 Max.	14.0 ±1.0	13.0 Max.	8.5 Typ.	2.2 Typ.	2.5 Typ.	4.0 Typ.
680	16.5 Max.	16.5 Max.	14.0 ±1.0	13.0 Max.	8.5 Typ.	1.2 Typ.	2.5 Typ.	4.0 Typ.
101	16.5 Max.	16.5 Max.	14.0 ±1.0	13.0 Max.	8.5 Typ.	1.1 Typ.	2.5 Typ.	4.0 Typ.

Regulation of part number

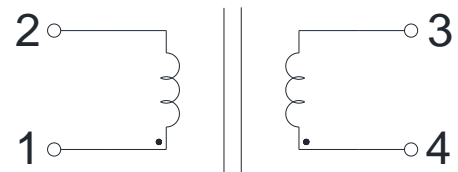


- ① CoilMaster's initial
- ② Series Name : Car Power line Common mode Filter
- ③ Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (45.0 uH)

Recommended Land Pattern



Circuit Diagram



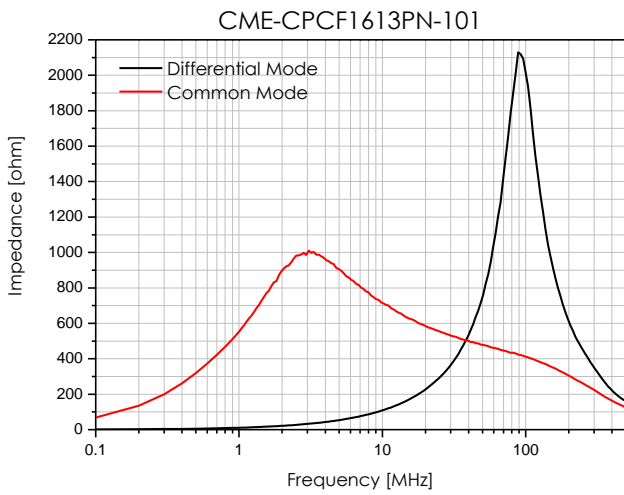
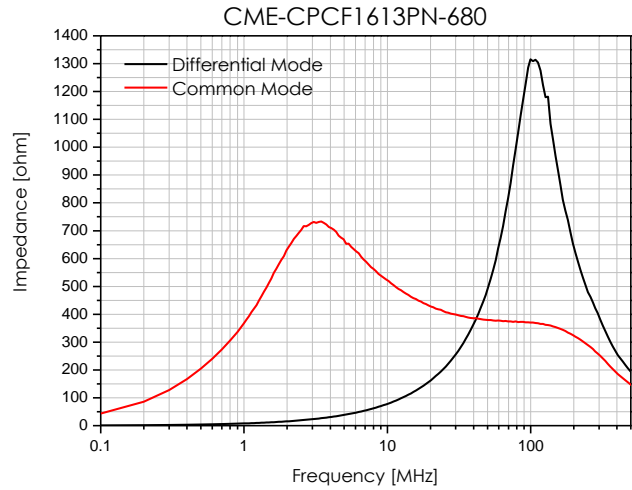
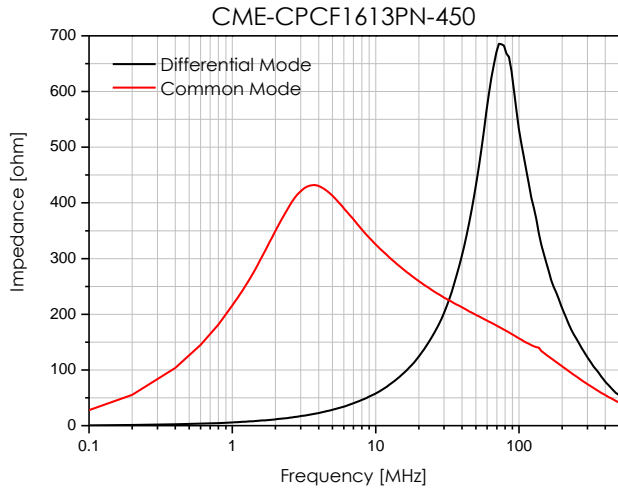
Specifications

Part Number	Inductance (uH) +50%/-30%	Common Mode Impedance (mohm) Typ.	DCR (mohm) Max.	Isat (A) TYP.	Irms (A) TYP.	Leakage inductance (uH) Max.
CME-CPCF1613PN-450	45	200	1.5	30	40	1.2
CME-CPCF1613PN-680	68	380	3.2	15	24	1.6
CME-CPCF1613PN-101	100	500	4.5	12	26	2.0

- Inductance test Frequency : 100 kHz
- Impedance test Frequency : 1 MHz
- Isat : When based on the inductance change rate (approximately 10% below in the initial value)
- Irms : When based on the temperature increase (Temperature increase of approximately 20°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.

Electrical characteristics

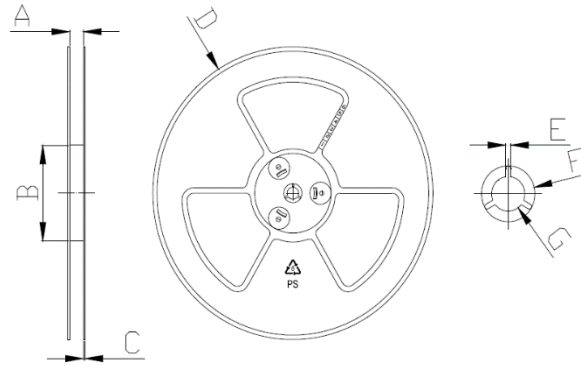


- All specifications are subject to change without notice.
- Update date : 2023.01.09

Packaging

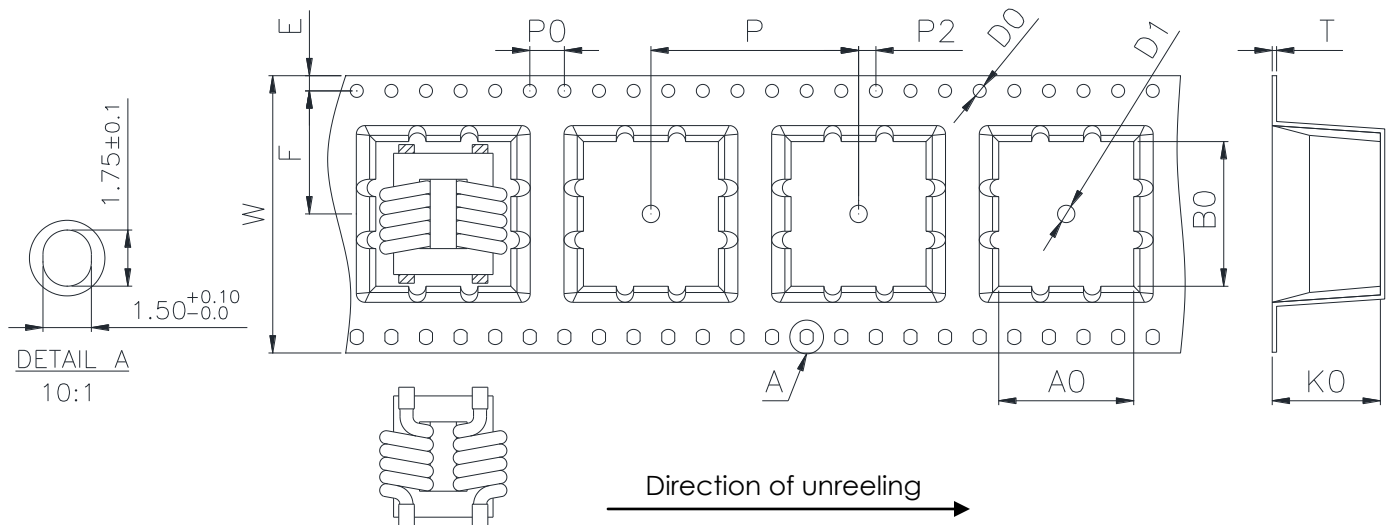
(1) Package quantity : 200 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
32.50	100.0	2.30	330.0	2.30	21.50	13.00
+0.50	+1.00	+0.30	+3.00	+0.30	+0.30	+0.50
-0.50	-1.00	-0.30	-3.00	-0.30	-0.30	-0.20

(3) Tape Dimensions



W	A0	B0	K0	E	F	P	P0	P2	D0	D1	T
32.00	15.60	16.70	12.50	1.75	14.20	24.00	4.00	2.00	1.50	2.00	0.50
+0.30	+0.10	+0.10	+0.10	+0.10	+0.10	+0.15	+0.10	+0.15	+0.10	+0.10	+0.05
-0.30	-0.10	-0.10	-0.10	-0.10	-0.10	-0.15	-0.10	-0.15	-0.00	-0.00	-0.05

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