

### Features

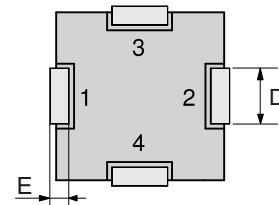
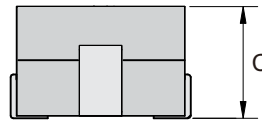
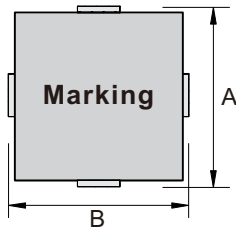
- Shielded Construction
- Composite core material allows high saturation current and compact design

### General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C

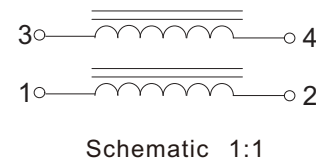
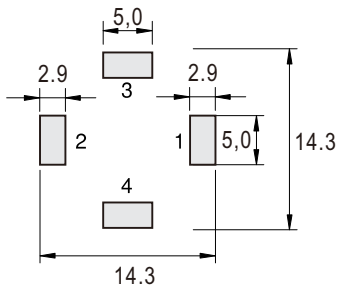


## ▶ Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E
MCPI1213	13.8±0.5	13.8±0.5	13.0 Max.	3.6±0.5	2.3±0.5

## ▶ Recommended Layout

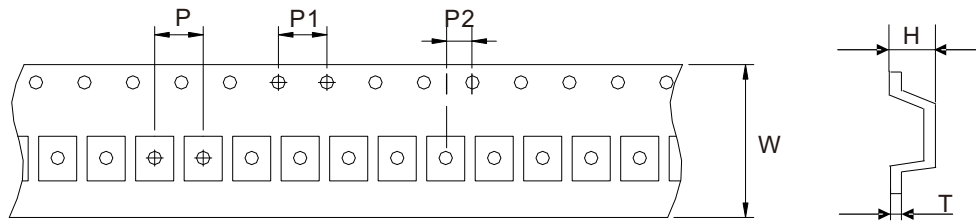


## ▶ Electrical Characteristics For MCPI1213 Series @ 25°C

Part Number	Inductance (μH) L(1-2)=L(3-4)	DCR (mΩ) Max. R(1-2)=R(3-4)	I <sub>rms</sub> (A) Typ.	I <sub>sat</sub> (A) Typ.
MCPI1213-8R2M	8.2±20%	17.6	25.0	10.0
MCPI1213-100M	10±20%	22.6	21.0	9.0
MCPI1213-150M	15±20%	36.8	16.0	7.0
MCPI1213-220M	22±20%	55	15.0	5.5

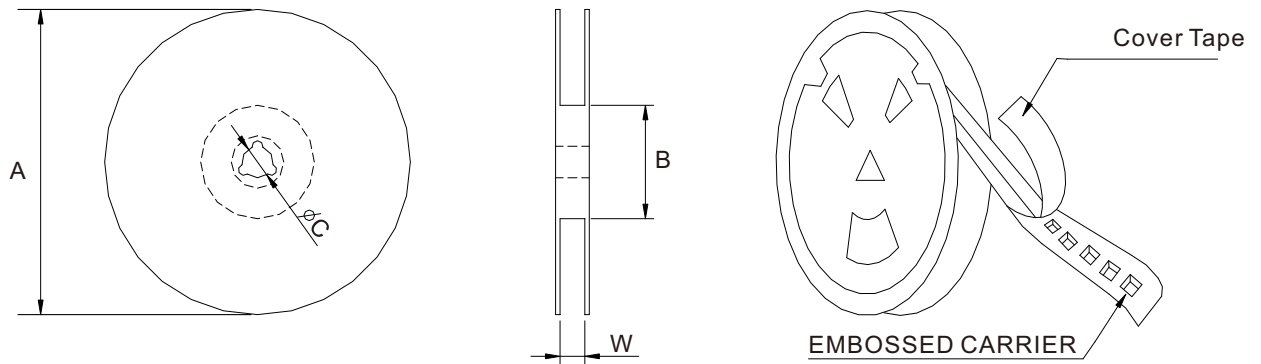
- Inductance tested at 100kHz, 1.0V<sub>rms</sub>
- I<sub>rms</sub>: DC current cause temp 40°C rise from 25°C
- I<sub>sat</sub>: DC current cause L drop 20% max.

**Tape & Reel Specifications:**



Unit: mm

Type	Dimension	W	P	P1	P2	H	T
	Tolerance	±0.3	±0.1	±0.1	±0.1	±0.15	±0.05
MCPI1213		24.0	20.0	4.0	2.0	13.20	0.50



Unit: mm

Type	Dimension	QTY Per Reel	A	B	C	W
	Tolerance	PCS	±2.0	±0.5	±0.5	±0.5
MCPI1213		250	330	97	13	24.8