

# PRODUCT SPECIFICATION

SPEC. No.

T-0654-044



## 1. Scope

This specification applies High Current Power Inductors PMC201612P-Series to be delivered to user.

## 2. Product Identification

PMC 201612P - 1R0□ - T

(1) (2) (3) (4) (5)

(1) Product name

(2) Shapes and dimensions

(3) Inductance

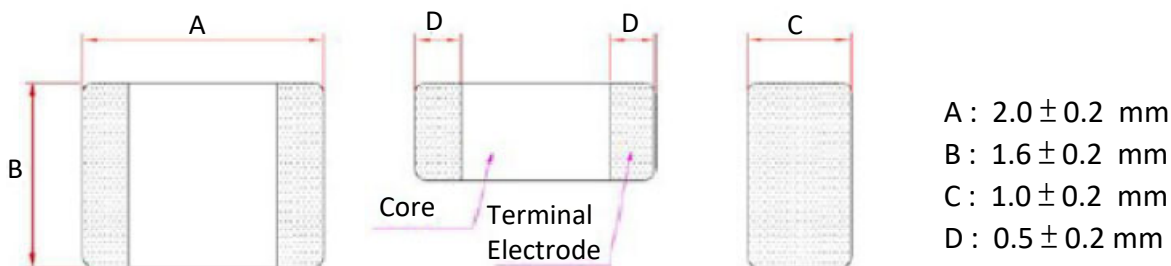
1R0: 1.0μH

(4) Tolerance(%)

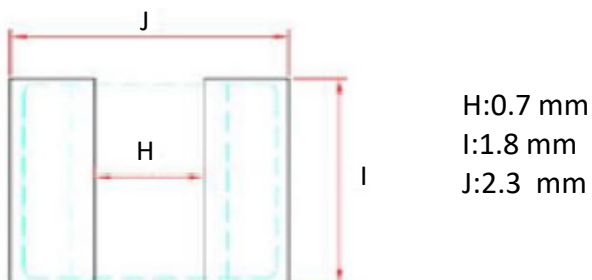
□: M= ±20%

(5) Taping Type

## 3. Shapes and Dimensions [Dimensions in mm]



### 3-1 Recommend Land Pattern Dimensions



Drawn by	Checked by	Approved by
 May. 23. 2022	 May. 23. 22	 May. 23. 2022

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## 4. Electrical Characteristics

### 4-1 Electrical Spec.

Customer Part Number	EMTEK Part No.	Inductance ( $\mu$ H)	Tol.	Rdc (m $\Omega$ )		Isat(A)		Irms(A)	
				Typ.	Max.	Typ.	Max.	Typ.	Max.
	PMC201612P-R47□-T	0.47	M	22	26	5.8	5.1	4.5	4.2
	PMC201612P-1R0□-T	1.0	M	41	48	4.0	3.5	3.2	2.8
	PMC201612P-1R5□-T	1.5	M	63	72	3.2	2.8	2.5	2.2
	PMC201612P-2R2□-T	2.2	M	95	116	2.8	2.4	1.9	1.6
	PMC201612P-3R3□-T	3.3	M	175	210	2.2	1.9	1.4	1.2

1. Test frequency: 1MHz, 1.0V
2. Referenced ambient temperature 20°C
3. I sat(Typ):DC current(A) that will cause L0 to drop approximately 30%  
 I sat(Max):DC current(A) that will cause L0 to drop 30% Max.  
 Irms(Typ):DC current(A) that will cause an approximate  $\Delta$  T of 40 °C  
 Irms(Max):DC current(A) that will cause  $\Delta$  T of 40 °C Max.
4. Operating Temperature range includes self-temperature rise.
5. The rated current as listed is either the saturation current or the heating current depending on which value is lower.
6. Operating Temperature:-55°C to 125°C