

PRODUCT SPECIFICATION

SPEC. No.

T-0654-045



1. Scope

This specification applies High Current Power Inductors PMC252010P-Series to be delivered to user.

2. Product Identification

PMC 252010P - 1R0□ - T

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

(1) Product name

(2) Shapes and dimensions

(3) Inductance

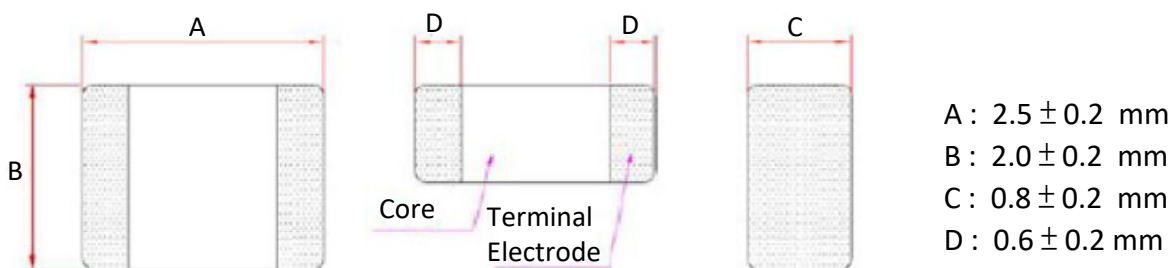
1R0: 1.0μH

(4) Tolerance(%)

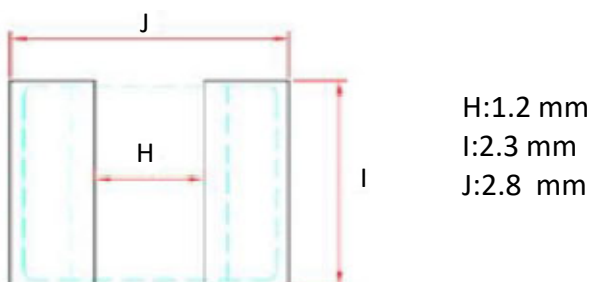
□: M= ±20%

(5) Taping Type

3. Shapes and Dimensions [Dimensions in mm]



3-1 Recommend Land Pattern Dimensions



Drawn by	Checked by	Approved by
 May. 24, 2022	 May. 24, 2022	 May. 24, 2022

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4. Electrical Characteristics

4-1 Electrical Spec.

Customer Part Number	EMTEK Part No.	Inductance (μ H)	Tol.	Rdc (m Ω)		Isat(A)		Irms(A)	
				Typ.	Max.	Typ.	Max.	Typ.	Max.
	PMC252010P-R47□-T	0.47	M	21	27	6.5	5.6	5.2	4.6
	PMC252010P-1R0□-T	1.0	M	38	48	4.7	4.3	4.2	4.0
	PMC252010P-1R5□-T	1.5	M	62	72	3.5	3.0	2.5	2.2
	PMC252010P-2R2□-T	2.2	M	81	97	3.1	2.6	2.3	2.1
	PMC252010P-3R3□-T	3.3	M	140	170	2.5	2.1	1.8	1.6
	PMC252010P-4R7□-T	4.7	M	215	240	2.2	1.8	1.6	1.4

1. Test frequency: 1MHz, 1.0V
2. Referenced ambient temperature 20 °C
3. Isat(Typ):DC current(A) that will cause L0 to drop approximately 30%
Isat(Max):DC current(A) that will cause L0 to drop 30% Max.
Irms(Typ):DC current(A) that will cause an approximate Δ T of 40 °C
Irms(Max):DC current(A) that will cause Δ 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