

PRODUCT SPECIFICATION

SPEC. No.

T-0654-034A



1. Scope

This specification applies High Current Power Inductors PMC252012P-Series to be delivered to user.

2. Product Identification

PMC 252012P - 4R7□ - T

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

(1) Product name

(2) Shapes and dimensions

(3) Inductance

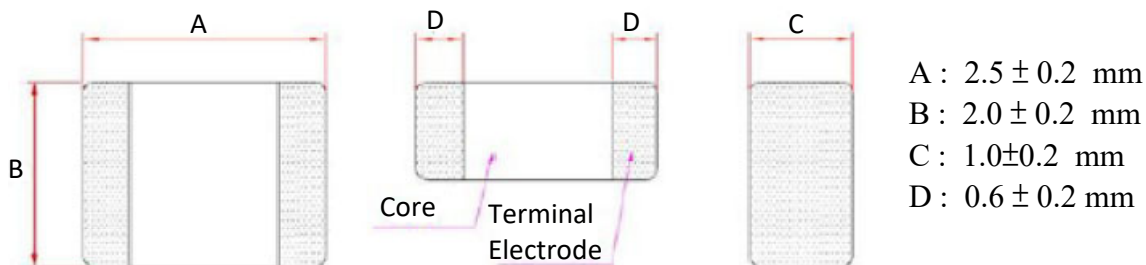
4R7: 4.7μH

(4) Tolerance(%)

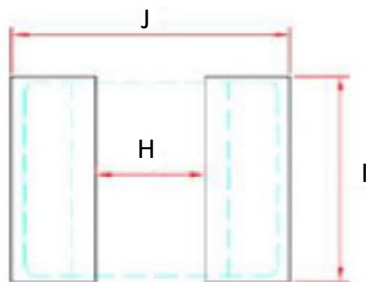
□: M= ±20%

(5) Taping Type

3. Shapes and Dimensions [Dimensions in mm]



3.1 Schematic & Recommended patterns



H:1.2 mm

I:2.3 mm

J:2.8 mm

Drawn by	Checked by	Approved by
<i>CL</i> May. 20. 2022	Zhengy May. 20. 2022	<i>sh</i> May. 30. 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)	
				Max.	Typ.	Max.	Typ.	Max.	Typ.
	PMC252012P-R24□-T	0.24	M	15	11	8	9.0	6.8	7.2
	PMC252012P-R47□-T	0.47	M	22	18	7.2	8.0	4.6	5.0
	PMC252012P-1R0□-T	1.0	M	40	35	4.7	5.5	3.8	4.2
	PMC252012P-1R5□-T	1.5	M	58	51	4.0	4.6	3.0	3.3
	PMC252012P-2R2□-T	2.2	M	82	70	3.3	3.6	2.5	2.8
	PMC252012P-3R3□-T	3.3	M	135	120	2.5	2.8	1.6	2.0
	PMC252012P-4R7□-T	4.7	M	180	150	1.8	2.0	1.2	1.5

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 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.