

PRODUCT SPECIFICATION

SPEC. No.

T-0653-073A



1. Scope

This specification applies High Current Power Inductors PHC252010-Series to be delivered to user.

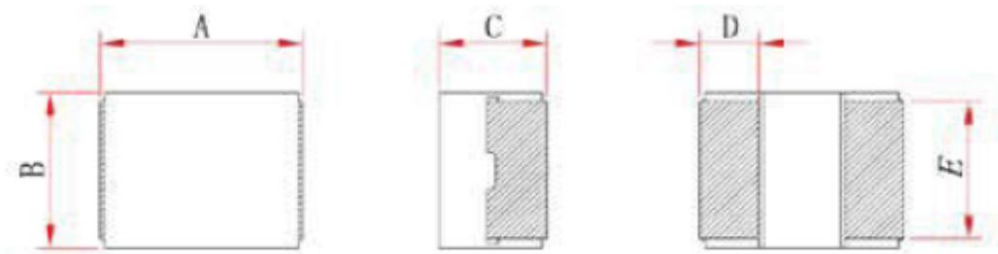
2. Product Identification

PHC 252010 - 1R0□ - T

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

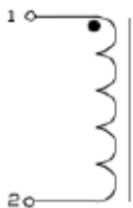
- (1) Product name
- (2) Shapes and dimensions
- (3) Inductance
1R0: 1.0 μ H
- (4) Tolerance(%)
M: \pm 20%
- (5) Taping Type
T: Taping, None: Bulk

3. Shapes and Dimensions [Dimensions in mm]



A: 2.5 \pm 0.2 mm
 B: 2.0 \pm 0.2 mm
 C: 1.0 Max. mm
 D: 0.6 \pm 0.2 mm
 E: 1.84 mm

3-1 Schematic



Drawn by	Checked by	Approved by
Cindy Apr. 23. 2018	Zheng Apr. 23. 2018	Su Apr. 23. 2018

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4. Electrical Characteristics

4-1 Electrical Spec.

Customer Part Number	EMTEK Part No.	Inductance (μ H)	Tol.	Rdc ($m\Omega$)		Isat (A)		Irms (A)	
				Typ.	Max.	Typ.	Max.	Typ.	Max.
	PHC252010-R22□-T	0.22	M	15	18	8.0	6.5	5.8	5.2
	PHC252010-R33□-T	0.33	M	18	22	6.5	5.4	5.3	4.6
	PHC252010-R47□-T	0.47	M	25	30	4.8	4.1	4.1	3.6
	PHC252010-R68□-T	0.68	M	40	47	4.3	3.6	3.5	3.0
	PHC252010-1R0□-T	1.00	M	49	59	3.6	3.2	3.1	2.7
	PHC252010-1R5□-T	1.50	M	76	89	2.9	2.4	2.5	2.1
	PHC252010-2R2□-T	2.20	M	110	119	2.4	2.1	1.9	1.7

1. Referenced ambient temperature 20°C
2. Test frequency: 1MHz, 1V
3. Isat(Typ):DC current (A) that will cause L0 to drop approximately 30%
Irms(Typ):DC current (A) that will cause an approximate Δ T of 40°C
4. Operating temperature:-55°C to 125°C
5. The rated current as listed is either the saturation current or the heating current depending on which value is lower
6. The moisture sensitivity level (MSL) of products is level 1.