

PRODUCT SPECIFICATION

SPEC. No.

T-0653-071



1. Scope

This specification applies High Current Power Inductors PHC201610-Series to be delivered to user.

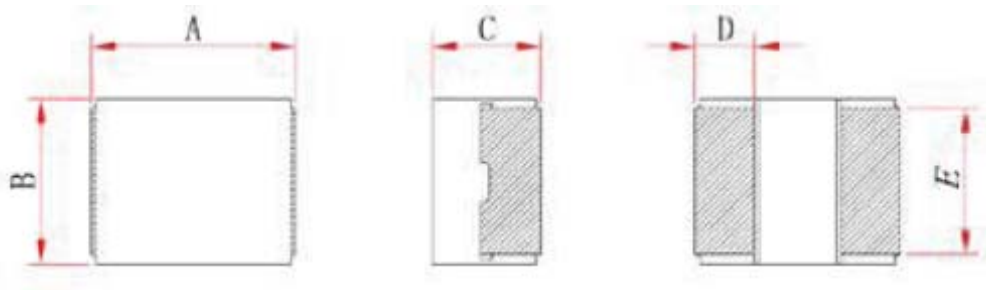
2. Product Identification

PHC 201610 - 1R0□ - T

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

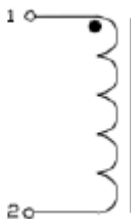
- (1) Product name
- (2) Shapes and dimensions
- (3) Inductance
1R0: 1.0 μ H
- (4) Tolerance(%)
M: $\pm 20\%$
- (5) Taping Type
T: Taping, None: Bulk

3. Shapes and Dimensions [Dimensions in mm]



A: 2.0 \pm 0.2 mm
 B: 1.6 \pm 0.2 mm
 C: 1.0 Max. mm
 D: 0.5 \pm 0.2 mm
 E: 1.44 mm

3-1 Schematic



Drawn by	Checked by	Approved by
<i>Ch</i> Nov. 25. 2016	<i>Zheny</i> Nov. 25. 2016	<i>Su</i> Nov. 25. 2016

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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.
	PHC201610-R24□-T	0.24	M	20	23	5.6	4.8	4.5	3.8
	PHC201610-R33□-T	0.33	M	30	35	5.4	4.3	4.0	3.5
	PHC201610-R47□-T	0.47	M	36	44	4.1	3.6	3.3	2.8
	PHC201610-R68□-T	0.68	M	52	65	3.3	3.0	2.9	2.5
	PHC201610-1R0□-T	1.00	M	63	75	2.7	2.2	2.5	2.1
	PHC201610-1R5□-T	1.50	M	105	135	2.5	2.2	2.1	1.8
	PHC201610-2R2□-T	2.20	M	174	195	1.9	1.6	1.6	1.4

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


EMTEK CO., LTD.