

PRODUCT SPECIFICATION

SPEC. No.

T-0653-072



1. Scope

This specification applies High Current Power Inductors PHC201612-Series to be delivered to user.

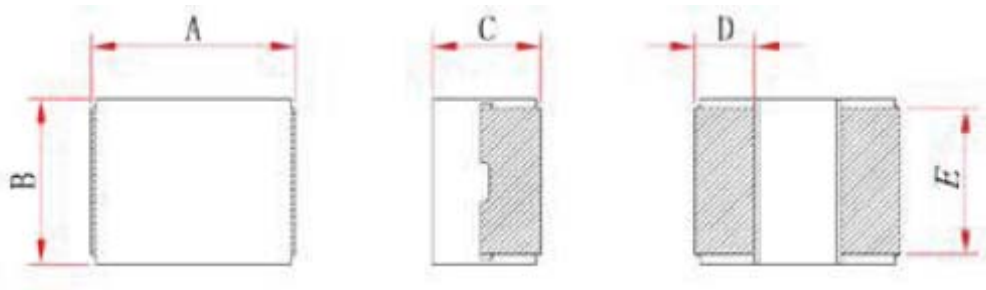
2. Product Identification

PHC 201612 - 1R0□ - T

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

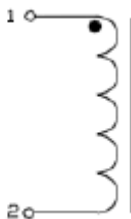
- (1) Product name
- (2) Shapes and dimensions
- (3) Inductance
1R0: 1.0 μ H
- (4) Tolerance(%)
M: \pm 20%
- (5) Taping Type
T: Taping, None: Bulk

3. Shapes and Dimensions [Dimensions in mm]



A: 2.0 \pm 0.2 mm
 B: 1.6 \pm 0.2 mm
 C: 1.2 Max. mm
 D: 0.5 \pm 0.2 mm
 E: 1.44 mm

3-1 Schematic



Drawn by	Checked by	Approved by
 Nov. 25. 2016	 Nov. 25. 2016	 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.
	PHC201612-R24□-T	0.24	M	17	20	6.5	5.8	5.2	4.4
	PHC201612-R33□-T	0.33	M	25	30	5.2	4.4	4.1	3.6
	PHC201612-R47□-T	0.47	M	30	35	4.4	3.7	3.8	3.2
	PHC201612-R68□-T	0.68	M	46	54	3.9	3.4	3.0	2.6
	PHC201612-1R0□-T	1.00	M	60	70	2.9	2.5	2.7	2.4
	PHC201612-1R5□-T	1.50	M	86	110	2.4	2.2	2.1	1.8
	PHC201612-2R2□-T	2.20	M	146	180	2.0	1.65	1.8	1.5

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