

# PRODUCT SPECIFICATION

SPEC. No.

T-0653-118



## 1. Scope

This specification applies Wire Wound Power Inductors PHC0750-Series to be delivered to user.

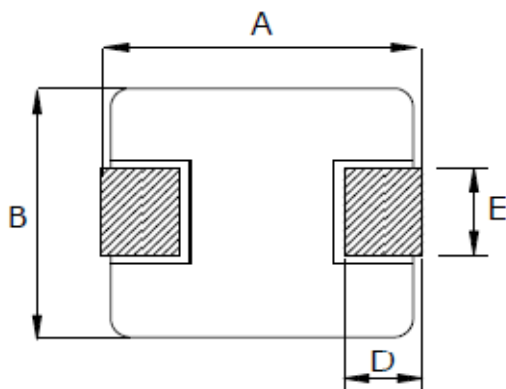
## 2. Product Identification

PHC 0750 - 1R0□ - T

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

- (1) Product name
- (2) Shapes and dimensions
- (3) Inductance  
1R0: 1.0 $\mu$ H
- (4) Tolerance(%)  
M:  $\pm 20\%$  , N:  $\pm 30\%$
- (5) Taping Type

## 3. Shapes and Dimensions [Dimensions in mm]



A : 7.0 $\pm$ 0.3 mm  
 B : 6.6 $\pm$ 0.2 mm  
 C : 4.8 $\pm$ 0.2 mm  
 D : 1.6 $\pm$  0.3 mm  
 E : 3.0 $\pm$ 0.3 mm

Drawn by	Checked by	Approved by
 Mar. 30, 2022	 Mar. 30, 2022	 Mar. 30, 2022

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## 4. Electrical Characteristics

### 4-1 Electrical Spec.

Customer Part Number	EMTEK Part No.	Inductance ( $\mu$ H)	Tol.	Rdc (m $\Omega$ )	Saturation Current Isat(A)Typ.	Heat Rating Current Irms(A)Typ.
				Max.		
	PHC0750-R47□-T	0.47	M	3.9	21.0	20.0
	PHC0750-R68□-T	0.68	M	4.5	18.0	16.5
	PHC0750-1R0□-T	1.0	M	6.6	16.0	12.0
	PHC0750-1R5□-T	1.5	M	10.0	13.0	9.5
	PHC0750-2R2□-T	2.2	M	12.5	11.0	9.0
	PHC0750-3R3□-T	3.3	M	22.0	10.0	8.5
	PHC0750-4R7□-T	4.7	M	29.0	8.0	6.0
	PHC0750-6R8□-T	6.8	M	41.0	6.3	5.8
	PHC0750-8R2□-T	8.2	M	48.0	5.5	5.5
	PHC0750-100□-T	10.0	M	60.0	5.3	4.5
	PHC0750-150□-T	15.0	M	90.0	4.0	3.1
	PHC0750-220□-T	22.0	M	140.0	3.5	2.6
	PHC0750-330□-T	33.0	M	190.0	3.0	2.3
	PHC0750-470□-T	47.0	M	230.0	2.6	2.0

1. Test frequency: 100KHz, 1.0V
2. All test data is referenced to 25°C ambient
3. DC current(Irms) that will cause an approximate  $\Delta$  T of 40°C
4. DC current(Isat) that will cause Lo to drop approximately 30%
5. All test data is referenced to 25°C ambient
6. Operating Temperature Range -55°C to +125°C
7. The part number(ambient + temp rise) should not exceed 125°C unde the worst operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affcet the part temperature. Part temperature should be verified in the end application.