PRODUCT SPECIFICATION

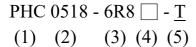
SPEC. No.



1. Scope

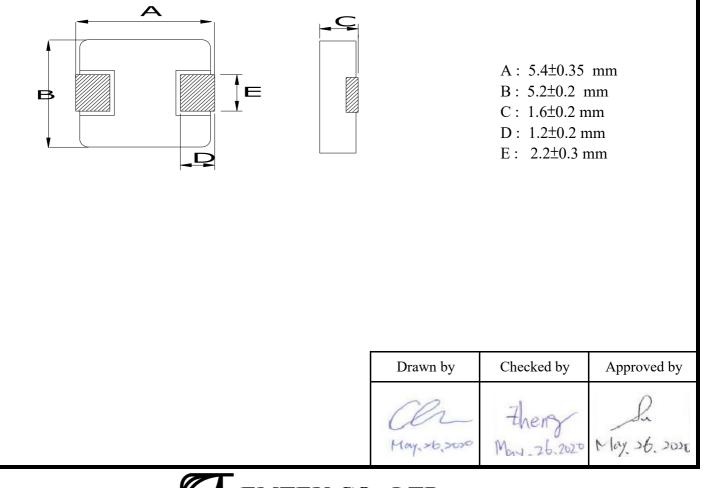
This specification applies High Current Power Inductors PHC0518-Series to be delivered to user.

2. Product Identification



- (1) Product name
- (2) Shapes and dimensions
- (3) Inductance
 - 6R8: 6.8µH
- (4) Tolerance(%) M: ±20%
- (5) Taping Type T: Taping, None:Bulk

3. Shapes and Dimensions





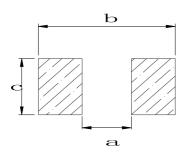
PRODUCT SPECIFICATION

SPEC. No.

T-0653-112



4. Land Patterns



a:2.2 typ. mm b:6 typ. mm c:2.5 typ. mm

5. Electrical Characterisitics

5-1 Electrical Spec.

Customer Part Number	EMTEK Part No.	Inductance <i>u</i> H (100KHz/1V)	Tol.	Rdc (mΩ) Max.	Saturation Current Isat(A) Typ.	Heating Rating Current Irms(A) Typ.
	PHC0518-R47T	0.47	М	9.0	15.5	10.5
	PHC0518-R56 -T	0.56	М	10.0	15.0	9.5
	PHC0518-R68T	0.68	М	13.8	11.2	8.9
	PHC0518-1R0T	1.00	М	17.0	9.0	8.0
	PHC0518-1R5T	1.50	М	26.0	8.0	7.5
	PHC0518-2R2T	2.2	М	35.0	6.5	5.0
	PHC0518-3R3T	3.3	М	58.0	5.0	4.5
	PHC0518-4R7T	4.7	М	85.0	4.0	3.5
	PHC0518-6R8T	6.8	М	120.0	3.4	2.8
	РНС0518-100 -Т	10.0	М	155.0	3.0	2.5

Inductance Tolerance:M=±20%

1.All test data is referenced to 25° C ambient.

- 2. Idc : DC current (A) that will cause an approximate $\triangle T$ of 40°C
- 3. Isat : DC current (A) that will cause Lo to drop approximately 30%
- 4.Operating Temperature Range -40 $^{\circ}$ C to + 125 $^{\circ}$ C

5. The part temperature (ambient + temp rise) should not exceed 125° under worse case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

