

Power Inductor

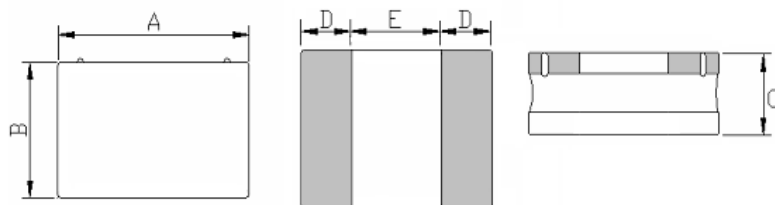
YHC201610UN-SERIES

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature :-40~+125°C (Including self - temperature rise)



2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
YHC201610UN	2.0 -0.1/+0.2	1.6 -0.1/+0.2	1.0max.	0.60 ref.	0.80 ref.

3. Part Numbering

YHC
 201610
 UN
 -
 4R7
 M

A B C D E

- A: Series
 B: Dimension
 C: Lead Free Material
 D: Inductance 4R7=4.7uH
 E: Inductance Tolerance M=±20% ; Y=±30%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A) typ.	I sat (A) Max.	I rms (A) typ.	I rms (A) Max.
YHC201610UN-R47Y	0.47	±30%	0.1V/1M	0.044	3.00	2.70	2.60	2.35
YHC201610UN-R68Y	0.68	±30%	0.1V/1M	0.062	2.45	2.00	2.25	2.05
YHC201610UN-1R0Y	1.0	±30%	0.1V/1M	0.080	1.95	1.80	1.75	1.60
YHC201610UN-1R5Y	1.5	±30%	0.1V/1M	0.130	1.65	1.46	1.40	1.26
YHC201610UN-2R2M	2.2	±20%	0.1V/1M	0.145	1.45	1.26	1.35	1.20
YHC201610UN-3R3M	3.3	±20%	0.1V/1M	0.245	1.05	0.90	1.05	0.95
YHC201610UN-4R7M	4.7	±20%	0.1V/1M	0.360	0.85	0.77	1.00	0.90
YHC201610UN-6R8M	6.8	±20%	0.1V/1M	0.500	0.80	0.72	0.70	0.55
YHC201610UN-100M	10	±20%	0.1V/1M	0.720	0.62	0.55	0.50	0.45
YHC201610UN-150M	15	±20%	0.1V/1M	1.400	0.50	0.45	0.40	0.36
YHC201610UN-180M	18	±20%	0.1V/1M	1.800	0.45	0.40	0.38	0.34
YHC201610UN-220M	22	±20%	0.1V/1M	2.000	0.43	0.38	0.30	0.27

Note:

I_{sat} : Saturation Current (I_{sat}) will cause L₀ to drop approximately 30%.

I_{rms} : Heat Rated Current (I_{rms}) will cause the coil temperature rise approximately ΔT of 40°C