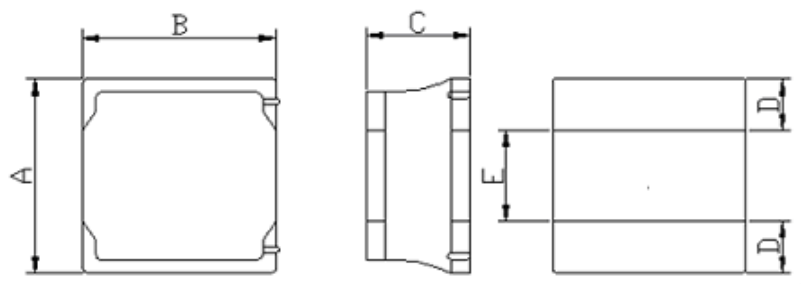


1. Features

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

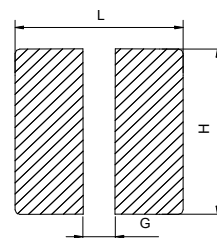
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
YHC48N	4.0±0.2	4.0±0.2	1.8 max.	1.2 ref.	1.6 ref.



Recommended Land pattern



L	G	H
4.2	1.4	4.2

3. Part Numbering

YHC

48

N

-

4R7

M

A

B

C

D

E

A: Series

B: Dimension

C: Lead Free

D: Inductance

4R7=4.7uH

E: Inductance Tolerance

M=±20% Y=±30%

4. Specification

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.
YHC48N-1R0YA	1.0	±30%	1V100K	0.027	4.00	3.60	3.70	3.60
YHC48N-1R5YA	1.5	±30%	1V100K	0.032	3.30	3.00	3.30	3.00
YHC48N-2R2MA	2.2	±20%	1V100K	0.042	3.00	2.70	2.90	2.70
YHC48N-3R3MA	3.3	±20%	1V100K	0.055	2.30	2.20	2.30	2.20
YHC48N-4R7MA	4.7	±20%	1V100K	0.070	2.00	1.90	2.00	1.90
YHC48N-6R8MA	6.8	±20%	1V100K	0.098	1.70	1.60	1.70	1.60
YHC48N-100MA	10	±20%	1V100K	0.150	1.50	1.40	1.50	1.40
YHC48N-150MA	15	±20%	1V100K	0.190	1.10	1.00	1.10	1.00
YHC48N-220MA	22	±20%	1V100K	0.290	0.90	0.80	0.90	0.80
YHC48N-330MA	33	±20%	1V100K	0.405	0.75	0.70	0.75	0.70
YHC48N-470MA	47	±20%	1V100K	0.550	0.60	0.55	0.60	0.55
YHC48N-680MA	68	±20%	1V100K	0.890	0.55	0.50	0.55	0.50
YHC48N-101MA	100	±20%	1V100K	1.380	0.45	0.40	0.45	0.40
YHC48N-151MA	150	±20%	1V100K	1.970	0.35	0.30	0.35	0.30
YHC48N-221MA	220	±20%	1V100K	3.000	0.30	0.25	0.30	0.25

Note:

Isat : Saturation Current (Isat) will cause L0 to drop approximately 30%.

Irms : Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃