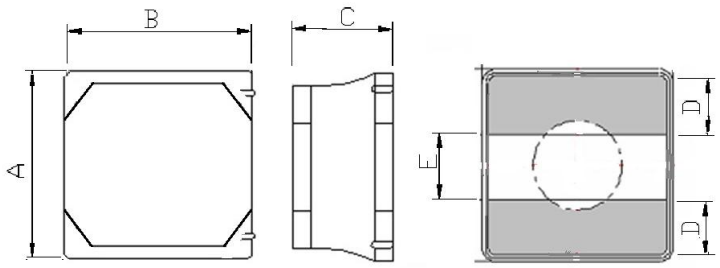
Power Inductor

HPC4012TF-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℃ (Including self - temperature rise).

2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
HPC4012TF	4.0±0.2	4.0±0.2	1.2 max.	1.2 ref.	1.6 ref.

Units: mm

3. Part Numbering

HPC	4012	TF	-	100	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead Free
D: Inductance 100=10uH
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)	I rms (A)
HPC4012TF -1R0Y	1.0	±30%	1V100K	0.042	3.30	2.50
HPC4012TF -2R2M	2.2	±20%	1V100K	0.060	1.95	2.20
HPC4012TF -3R3M	3.3	±20%	1V100K	0.070	1.60	1.90
HPC4012TF -4R7M	4.7	±20%	1V100K	0.095	1.40	1.70
HPC4012TF -6R8M	6.8	±20%	1V100K	0.125	1.10	1.50
HPC4012TF -100M	10	±20%	1V100K	0.180	1.00	1.30
HPC4012TF -150M	15	±20%	1V100K	0.260	0.80	0.95
HPC4012TF -220M	22	±20%	1V100K	0.400	0.60	0.72

Note:

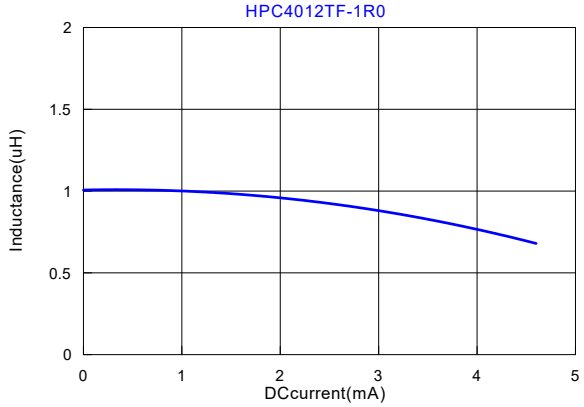
Isat：Saturation Current (Isat) will cause L0 to drop approximately 30%.

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

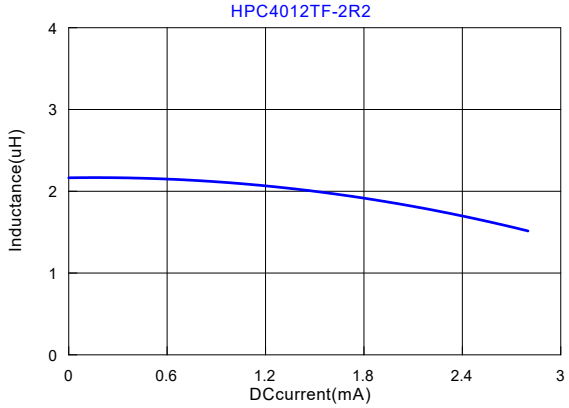
Rated DC Current： The less value whith is Irms or Isat.

5.Typical Performance Curves

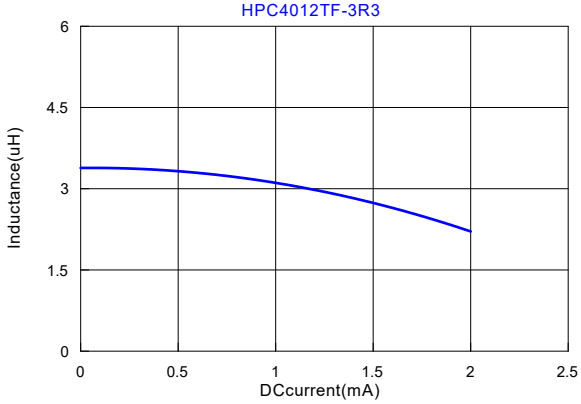
HPC4012TF-1R0



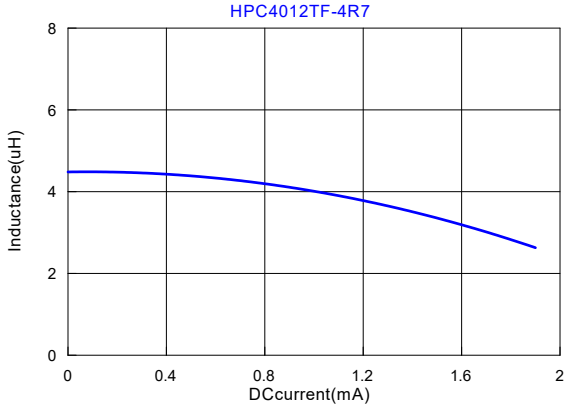
HPC4012TF-2R2



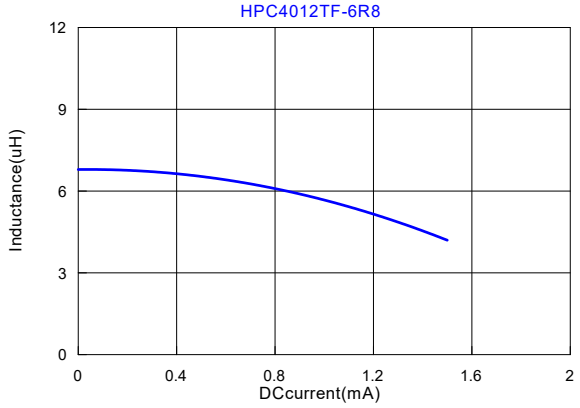
HPC4012TF-3R3



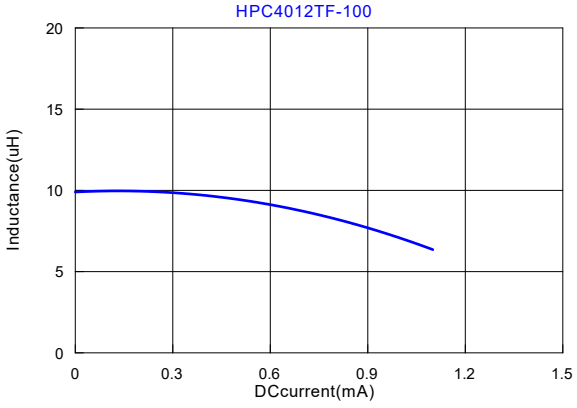
HPC4012TF-4R7



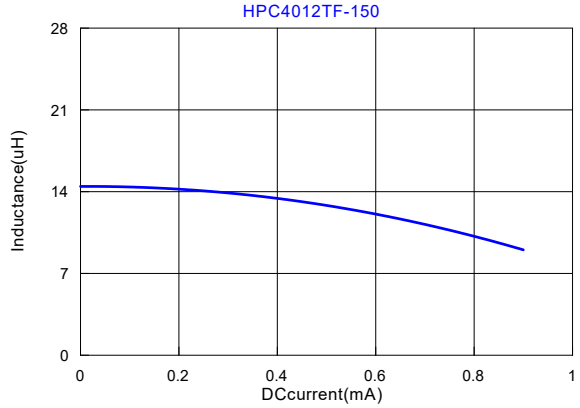
HPC4012TF-6R8



HPC4012TF-100



HPC4012TF-150



HPC4012TF-220