

Power Inductor

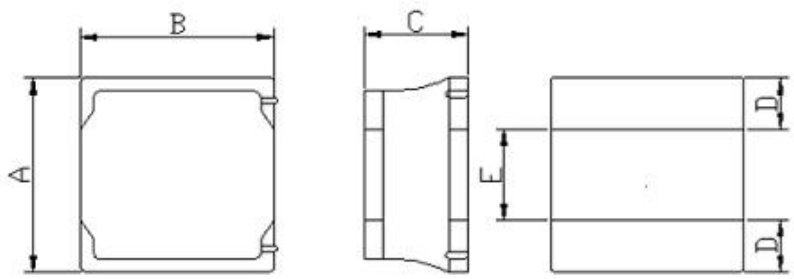
HPC4018NF-SERIES

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)
HPC4018NF	4.0±0.2	4.0±0.2	1.8 max.	1.2 ref.	1.6 ref.

Units: mm

3. Part Numbering

HPC **4018** **NF** - **4R7** **M**
 A B C D E

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

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) $\pm 20\%$	I sat (A)	I rms (A)
HPC4018NF-1R0M	1.0	$\pm 20\%$	1V100K	0.027	4.00	3.70
HPC4018NF-1R5M	1.5	$\pm 20\%$	1V100K	0.032	3.30	3.30
HPC4018NF-2R2M	2.2	$\pm 20\%$	1V100K	0.042	3.00	2.90
HPC4018NF-3R3M	3.3	$\pm 20\%$	1V100K	0.055	2.30	2.30
HPC4018NF-4R7M	4.7	$\pm 20\%$	1V100K	0.070	2.00	2.00
HPC4018NF-6R8M	6.8	$\pm 20\%$	1V100K	0.098	1.70	1.70
HPC4018NF-100M	10	$\pm 20\%$	1V100K	0.150	1.50	1.50
HPC4018NF-150M	15	$\pm 20\%$	1V100K	0.190	1.10	1.10
HPC4018NF-220M	22	$\pm 20\%$	1V100K	0.290	0.90	0.90
HPC4018NF-330M	33	$\pm 20\%$	1V100K	0.405	0.75	0.75
HPC4018NF-470M	47	$\pm 20\%$	1V100K	0.550	0.60	0.60
HPC4018NF-680M	68	$\pm 20\%$	1V100K	0.890	0.55	0.55
HPC4018NF-101M	100	$\pm 20\%$	1V100K	1.380	0.45	0.45
HPC4018NF-151M	150	$\pm 20\%$	1V100K	1.970	0.35	0.35
HPC4018NF-221M	220	$\pm 20\%$	1V100K	3.000	0.30	0.30

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.

Rated DC Current : The less value which is I_{rms} or I_{sat}.

5. Typical Performance Curves

