

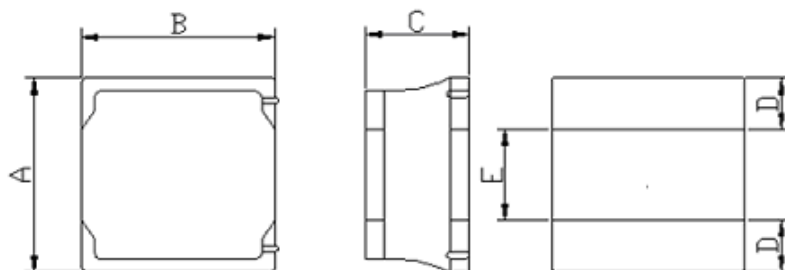
Power Inductor

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)

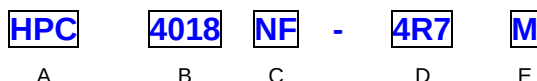
2. Dimension



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



A: Series

B: Dimension

C: Lead Free

D: Inductance

E: Inductance Tolerance

4R7=4.7uH

M=±20% Y=±30%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz) typ.	DCR (Ω) ±20%	I sat (A)typ.	I rms (A)typ.
HPC4018NF-1R0Y	1.0	±30%	1V100K	160	0.027	4.00	3.70
HPC4018NF-1R5Y	1.5	±30%	1V100K	110	0.032	3.30	3.30
HPC4018NF-2R2M	2.2	±20%	1V100K	70	0.042	3.00	2.90
HPC4018NF-3R3M	3.3	±20%	1V100K	60	0.055	2.30	2.30
HPC4018NF-4R7M	4.7	±20%	1V100K	50	0.070	2.00	2.00
HPC4018NF-6R8M	6.8	±20%	1V100K	40	0.098	1.70	1.70
HPC4018NF-100M	10	±20%	1V100K	35	0.150	1.50	1.50
HPC4018NF-150M	15	±20%	1V100K	25	0.190	1.10	1.10
HPC4018NF-220M	22	±20%	1V100K	20	0.290	0.90	0.90
HPC4018NF-330M	33	±20%	1V100K	12	0.405	0.75	0.75
HPC4018NF-470M	47	±20%	1V100K	10	0.550	0.60	0.60

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz) typ.	DCR (Ω) $\pm 20\%$	I sat (A)typ.	I rms (A)typ.
HPC4018NF-680M	68	$\pm 20\%$	1V100K	10	0.890	0.55	0.55
HPC4018NF-101M	100	$\pm 20\%$	1V100K	8	1.380	0.45	0.45
HPC4018NF-151M	150	$\pm 20\%$	1V100K	5	1.970	0.35	0.35
HPC4018NF-221M	220	$\pm 20\%$	1V100K	5	3.00	0.30	0.30

Note:

Isat : Based on inductance change ($\Delta L/L_0$: 30%) @ ambient temp. 25°C

Irms : Based on temperature rise (ΔT : 40°C.)

