

Power Inductor

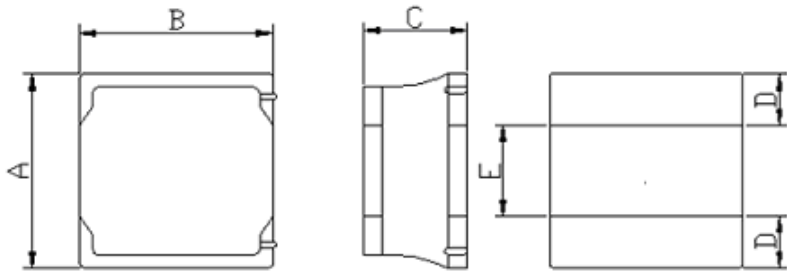
HPC4018NV-Series

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. High reliability -Reliability tests comply with AEC-Q200
4. Operating temperature -55~+125°C (Including self - temperature rise)



2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
HPC4018NV	4.0±0.2	4.0±0.2	1.8 max.	1.2 ref.	1.6 ref.

3. Part Numbering

HPC
4018
N
V
-
100
-
M

- A: Series
 - B: Dimension
 - C: Lead Free
 - D: Category Code
 - E: Inductance
 - F: Inductance Tolerance
- V=Vehicle
 100=10.0uH
 M=±20%;Y=±30%

4. Specification

Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) $\pm 20\%$	I sat (A)typ.	I sat (A)Max.	I rms (A)typ.	I rms (A)Max.
HPC4018NV-1R0Y	1.0	$\pm 30\%$	1V100K	0.027	4.00	3.60	3.70	3.60
HPC4018NV-1R5Y	1.5	$\pm 30\%$	1V100K	0.032	3.30	3.00	3.30	3.00
HPC4018NV-2R2M	2.2	$\pm 20\%$	1V100K	0.042	3.00	2.70	2.90	2.70
HPC4018NV-3R3M	3.3	$\pm 20\%$	1V100K	0.055	2.30	2.20	2.30	2.20
HPC4018NV-4R7M	4.7	$\pm 20\%$	1V100K	0.070	2.00	1.90	2.00	1.90
HPC4018NV-6R8M	6.8	$\pm 20\%$	1V100K	0.098	1.70	1.60	1.70	1.60
HPC4018NV-100M	10	$\pm 20\%$	1V100K	0.150	1.50	1.40	1.50	1.40
HPC4018NV-150M	15	$\pm 20\%$	1V100K	0.190	1.10	1.00	1.10	1.00
HPC4018NV-220M	22	$\pm 20\%$	1V100K	0.290	0.90	0.80	0.90	0.80
HPC4018NV-330M	33	$\pm 20\%$	1V100K	0.405	0.75	0.70	0.75	0.70
HPC4018NV-470M	47	$\pm 20\%$	1V100K	0.550	0.60	0.55	0.60	0.55
HPC4018NV-680M	68	$\pm 20\%$	1V100K	0.890	0.55	0.50	0.55	0.50
HPC4018NV-101M	100	$\pm 20\%$	1V100K	1.380	0.45	0.40	0.45	0.40
HPC4018NV-151M	150	$\pm 20\%$	1V100K	1.970	0.35	0.30	0.35	0.30
HPC4018NV-221M	220	$\pm 20\%$	1V100K	3.000	0.30	0.25	0.30	0.25

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

9. Typical Performance Curves

