

SMD Power Inductor

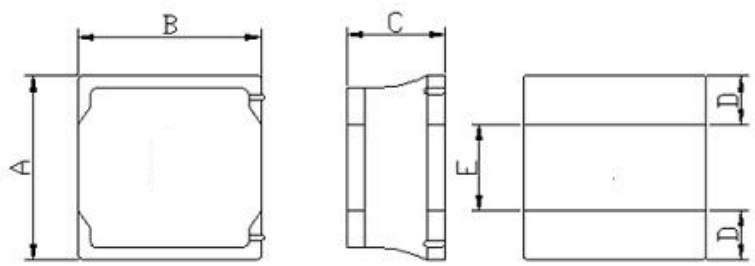
HPC4018NF-SERIES

1. Features

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



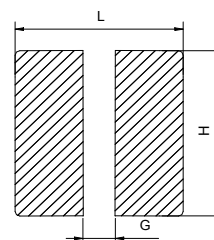
2. Dimension



A	B	C	D	E
4.0±0.2	4.0±0.2	1.8 max	1.2 ref	1.6 ref

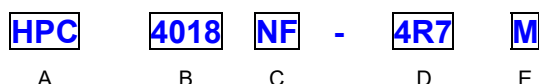
Unit:mm

Recommended Land pattern



L	G	H
4.2	1.4	4.2

3. Part Numbering



A: Series

B: Dimension

C: Lead Free

D: Inductance

4R7=4.70uH

E: Inductance Tolerance

K=±10%, L=±15%, M=±20%, Y=±30%.

4. Specification

Part Number	Inductance (uH)±20% @ 0 A DC	Test Frequency (Hz)	I rms (A)		I sat (A)		DCR (Ω) ±20%
			Typ	Max	Typ	Max	
HPC4018NF-1R0Y	1.00±30%	1V100K	3.70	3.60	4.00	3.60	0.027
HPC4018NF-1R5Y	1.50±30%	1V100K	3.30	3.00	3.30	3.00	0.032
HPC4018NF-2R2M	2.20	1V100K	2.90	2.70	3.00	2.70	0.042
HPC4018NF-3R3M	3.30	1V100K	2.30	2.20	2.30	2.20	0.055
HPC4018NF-4R7M	4.70	1V100K	2.00	1.90	2.00	1.90	0.070
HPC4018NF-6R8M	6.80	1V100K	1.70	1.60	1.70	1.60	0.098
HPC4018NF-100M	10.0	1V100K	1.50	1.40	1.50	1.40	0.150
HPC4018NF-150M	15.0	1V100K	1.10	1.00	1.10	1.00	0.190
HPC4018NF-220M	22.0	1V100K	0.90	0.80	0.90	0.80	0.290
HPC4018NF-330M	33.0	1V100K	0.75	0.70	0.75	0.70	0.405
HPC4018NF-470M	47.0	1V100K	0.60	0.55	0.60	0.55	0.550
HPC4018NF-680M	68.0	1V100K	0.55	0.50	0.55	0.50	0.890

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 lower value of Irms and Isat.

10. Typical Performance Curves

