

**SMD Power Inductor**

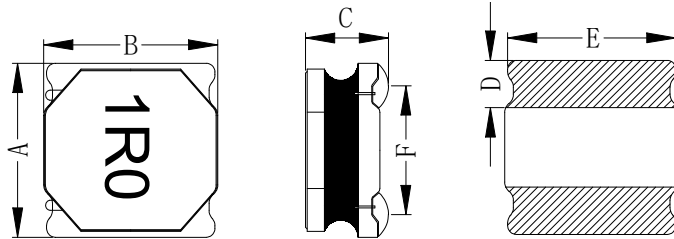
**HPC6020NV-SERIES**

**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).



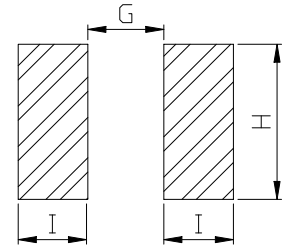
**2. Dimension**



Series	*A(mm)	*B(mm)	*C(mm)	D(mm)	E(mm)	F(mm)
HPC6020NV	6.0±0.2	6.0±0.2	1.8±0.2	1.6±0.3	5.8±0.3	4.3ref

\*Dimensions are not including the termination. For maximum overall dimensions with termination , add 0.1mm.

**Recommend Land pattern**



G(mm)	H(mm)	I(mm)
2.5	5.8	1.8

Note: 1. The above PCB layout reference only.  
2. Recommend solder paste thickness at 0.15mm and above.

**3. Part Numbering**



- A: Series
  - B: Dimension
  - C: Type
  - D: Inductance
  - E: Inductance Tolerance
- A/B\*C  
V=Vehicle  
1R0=1.00uH  
K=±10%, L=±15%,M=±20%,Y=±30%.  
marking direction cannot decide polarity. Color: Black, unidirectional.  
magnetic shielding

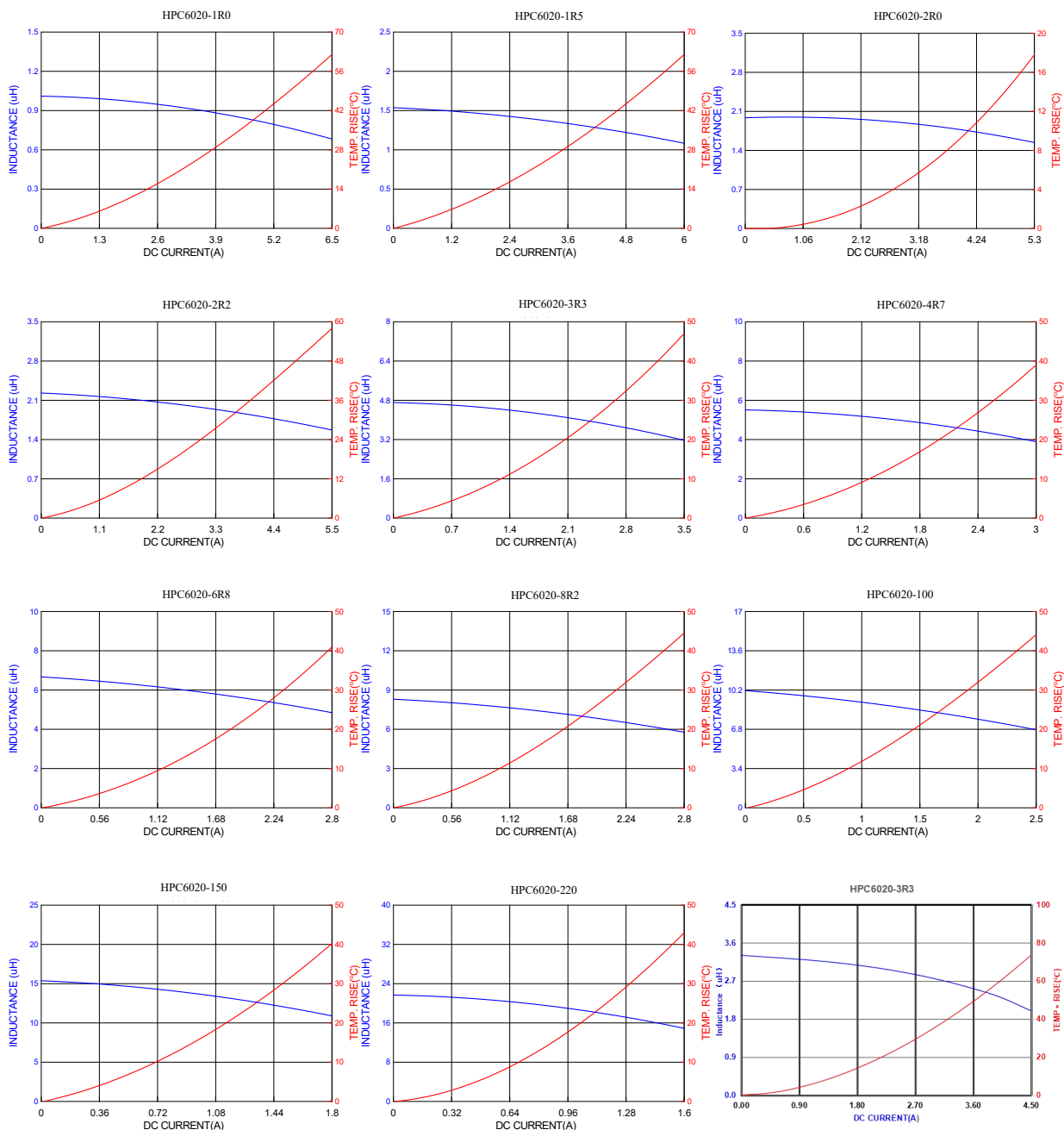
## 4. Specification

Part Number	Inductance L0 (uH) @ 0 A	Tolerance				Rated current		DCR (mΩ) @25°C ±20%.
						Temperature current I rms (A)	Saturation current I sat (A)	
		K	L	M	Y			
HPC6020NF-R80	0.80	/	/	±20%	±30%	5.5	7.5	16.0
HPC6020NV-1R0	1.00	/	/	±20%	±30%	4.50	6.20	19.0
HPC6020NV-1R5	1.50	/	/	±20%	±30%	3.80	5.50	22.5
HPC6020NV-2R0	2.00	/	/	±20%	±30%	3.65	5.30	25.0
HPC6020NV-2R2	2.20	/	/	±20%	±30%	3.50	5.00	29.0
HPC6020NV-3R3	3.30	/	/	±20%	±30%	3.30	4.00	35.0
HPC6020NV-4R7	4.70	/	±15%	±20%	±30%	2.80	3.00	54.0
HPC6020NV-5R6	5.60	/	±15%	±20%	±30%	2.60	2.70	59.0
HPC6020NV-6R8	6.80	/	±15%	±20%	±30%	2.50	2.60	78.0
HPC6020NV-8R2	8.20	/	±15%	±20%	±30%	2.30	2.40	103
HPC6020NV-100	10.0	±10%	±15%	±20%	±30%	2.10	2.10	106
HPC6020NV-150	15.0	±10%	±15%	±20%	±30%	1.60	1.50	138
HPC6020NV-220	22.0	±10%	±15%	±20%	±30%	1.40	1.30	204
HPC6020NF-330	33.0	±10%	±15%	±20%	±30%	1.3	1.2	340

Note:

1. All test data referenced to 25°C ambient , Ls:100KHz/1V.
2. Testing Instrument : HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH502BC MICRO OHMMETER.
3. Heat Rated Current (I rms) will cause the coil temperature rise approximately ΔT of 40°C.
4. Saturation Current (Isat) will cause L0 to drop approximately 30%.
5. Rated DC Current : The less value which is I rms or Isat.
6. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

### 5. Typical Performance Curves



单击下面可查看定价，库存，交付和生命周期等信息

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