

# SMD Power Inductor

## Features

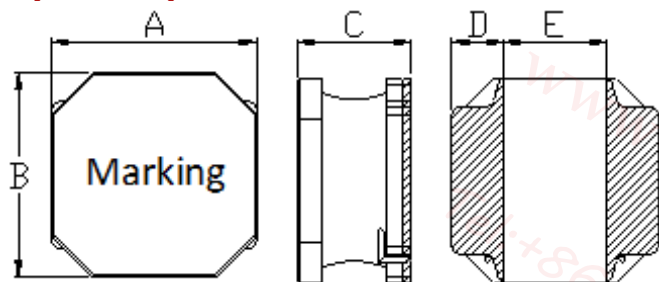
- ▶ Small and Low profile inductor
- ▶ It corresponds to High current.
- ▶ Simple and Shield structure.
- ▶ Takes up less PCB real estate and save more power
- ▶ Available tape and reel for auto insertion.
- ▶ RoHs compliant
- ▶ Halogen-Free



## Applications

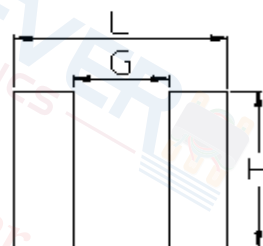
- ▶ For small DC/DC converter (cellular Phone, LCD/LED/OLED display etc).

## Dimension (Unit:mm)



A	B	C	D	E
6.0±0.3	6.0±0.3	2.0 Max.	1.7±0.3	2.6±0.3

## Land Pattern (Unit:mm)



L	G	H
6.0	2.4	5.7

## Specifications

Part Number	Inductance (μH)	Tolerance (±)	DCR (mΩ) ±30%	I <sub>sat</sub> (A) Max.	I <sub>temp</sub> (A) Max.	SRF (Min) (MHz)
EPNR6020-R68N	0.68	30%	17	6.55	3.80	115
EPNR6020-R82N	0.82	30%	17	5.30	3.80	110
EPNR6020-1R0N	1.0	30%	20	4.15	3.50	100
EPNR6020-1R5N	1.5	30%	22	4.25	3.20	79
EPNR6020-2R2N	2.2	30%	28	3.75	2.75	61
EPNR6020-3R3N	3.3	30%	35	3.15	2.60	51
EPNR6020-4R7M	4.7	20%	58	3.00	2.00	41
EPNR6020-6R8M	6.8	20%	79	2.20	1.80	31
EPNR6020-100M	10	20%	105	1.75	1.40	27
EPNR6020-120M	12	20%	120	1.45	1.30	25
EPNR6020-150M	15	20%	145	1.20	1.20	21
EPNR6020-180M	18	20%	180	1.20	1.08	18
EPNR6020-220M	22	20%	204	1.05	1.00	16
EPNR6020-330M	33	20%	300	0.95	0.84	11
EPNR6020-470M	47	20%	430	0.70	0.80	10

• Inductance Tested at 100kHz, 1Vrms (20°C)

• I<sub>sat</sub>: When based on the inductance change rate (approximately 30% below in the initial value)

• I<sub>temp</sub>: When based on the temperature increase (Temperature increase of approximately 40°C by self heating)

• Operating Temperature Range(including self temperature) : -25°C ~ +125°C

Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application