

# SMD Power Inductor



## Features

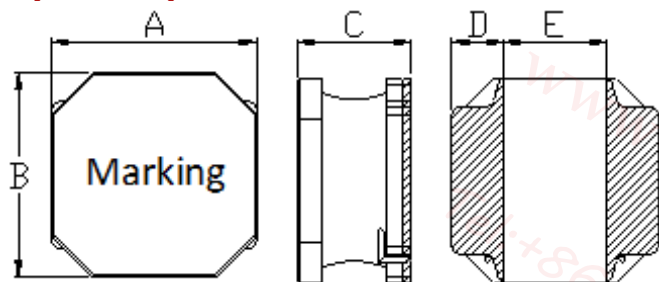
- ▶ Small and Low profile inductor
- ▶ It corresponds to High current.
- ▶ Simple and Shield structure.
- ▶ Takes up less PCB real estate and save more power
- ▶ Available tape and reel for auto insertion.
- ▶ RoHs compliant
- ▶ Halogen-Free



## Applications

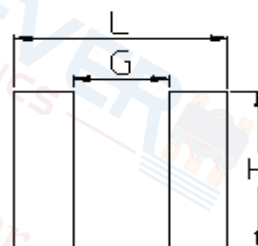
- ▶ For small DC/DC converter (cellular Phone, LCD/LED/OLED display etc).

## Dimension (Unit:mm)



A	B	C	D	E
5.0±0.2	5.0±0.2	2.1 Max.	1.5±0.2	2.0±0.2

## Land Pattern (Unit:mm)



L	G	H
5.1	2.3	4.2

## Specifications

Part Number	Inductance (μH)	Tolerance (±)	DCR (mΩ) ±30%	I <sub>sat</sub> (A) Max.	I <sub>temp</sub> (A) Max.	SRF (Min) (MHz)
EPNR5020-1R0N	1.0	30%	20	4.10	3.80	114
EPNR5020-1R5N	1.5	30%	30	4.10	3.20	68
EPNR5020-2R2N	2.2	30%	40	3.20	2.70	57
EPNR5020-3R3N	3.3	30%	50	2.55	2.30	46
EPNR5020-4R7M	4.7	20%	57	2.50	2.20	37
EPNR5020-6R8M	6.8	20%	83	2.05	1.80	30
EPNR5020-8R2M	8.2	20%	98	1.85	1.65	26
EPNR5020-100M	10	20%	120	1.70	1.55	24
EPNR5020-120M	12	20%	140	1.50	1.40	22
EPNR5020-150M	15	20%	165	1.35	1.25	20
EPNR5020-180M	18	20%	200	1.25	1.15	16
EPNR5020-220M	22	20%	250	1.15	1.10	14
EPNR5020-330M	33	20%	400	0.92	0.90	10
EPNR5020-470M	47	20%	580	0.77	0.75	7
EPNR5020-680M	68	20%	740	0.65	0.64	6
EPNR5020-101M	100	20%	1100	0.53	0.40	6

- 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