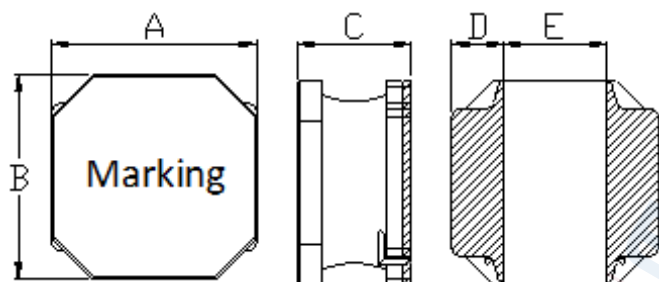


# SMD Power Inductor

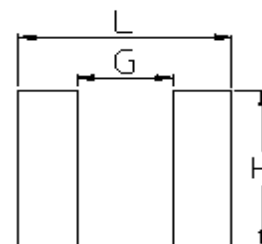


## Dimension (Unit:mm)



A	B	C	D	E
8.0±0.3	8.0±0.3	4.2 Max.	2.1±0.3	3.8±0.3

## Land Pattern (Unit:mm)



L	G	H
8.2	3.8	7.5

## Specifications

Part Number	Inductance (μH)	Tolerance (±)	DCR (mΩ) ±30%	Isat (A) Max.	Itemp (A) Max.	SRF (Min) (MHz)
EPNR8040-R82N	0.82	30%	8	13.80	6.30	94
EPNR8040-1R0N	1.0	30%	8	9.85	6.30	89
EPNR8040-1R5N	1.5	30%	10	8.15	5.65	67
EPNR8040-2R2N	2.2	30%	12	7.10	5.15	41
EPNR8040-3R3N	3.3	30%	17	6.50	4.40	27
EPNR8040-4R7N	4.7	30%	19	5.90	4.10	24
EPNR8040-6R8M	6.8	20%	24	4.55	3.60	20
EPNR8040-8R2M	8.2	20%	26	4.20	3.45	17
EPNR8040-100M	10	20%	42	3.60	3.30	15
EPNR8040-150M	15	20%	47	2.95	2.60	12
EPNR8040-180M	18	20%	53	2.70	2.40	11
EPNR8040-220M	22	20%	69	2.40	2.10	9.5
EPNR8040-470M	47	20%	136	1.75	1.55	6.4
EPNR8040-680M	68	20%	196	1.45	1.25	4.9
EPNR8040-820M	82	20%	225	1.30	1.15	4.9
EPNR8040-101M	100	20%	290	1.15	1.00	4.2
EPNR8040-121M	120	20%	334	1.05	0.95	3.5
EPNR8040-151M	150	20%	410	1.10	0.85	3.5
EPNR8040-221M	220	20%	599	0.85	0.80	3.5
EPNR8040-331M	330	20%	889	0.68	0.64	2.8
EPNR8040-471M	470	20%	1260	0.60	0.54	2.1
EPNR8040-681M	680	20%	2040	0.50	0.45	1.7
EPNR8040-102M	1000	20%	2800	0.40	0.35	1.4

- Inductance Tested at 100kHz, 1Vrms (20°C)
- Isat: When based on the inductance change rate (approximately 30% below in the initial value)
- Itemp: 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



Balun Transformer | Coupler | Divider | Inductor | Choke | Bead | Air Coil | LAN Transformer