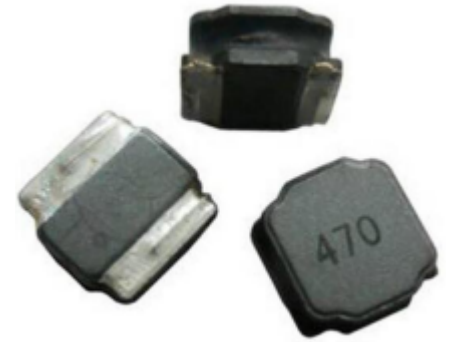


SMD Power Inductor



Features

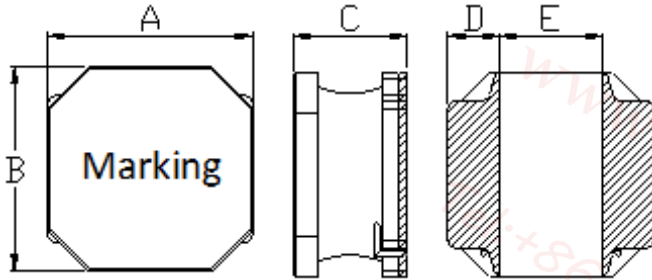
- ▶ Small and Low profile inductor
- ▶ It corresponds to High current.
- ▶ Simple and Shield structure.
- ▶ Takes up less PCB real estate and save more power
- ▶ Available tape and reel for auto insertion.
- ▶ RoHs compliant
- ▶ Halogen-Free



Applications

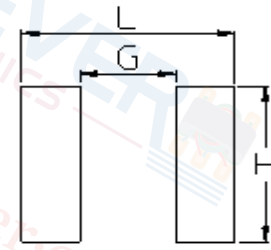
- ▶ For small DC/DC converter (cellular Phone, LCD/LED/OLED display etc).

Dimension (Unit:mm)



A	B	C	D	E
3.0±0.2	3.0±0.2	1.5 Max.	0.75±0.2	1.5±0.2

Land Pattern (Unit:mm)



L	G	H
3.1	1.5	2.7

Specifications

Part Number	Inductance (μH)	Tolerance (±)	DCR (mΩ) ±30%	Isat (A) Max.	Itemp (A) Max.	SRF (Min) (MHz)
EPNR3015-1R0N	1.0	30%	39	2.32	2.35	150
EPNR3015-1R2N	1.2	30%	40	2.21	1.95	110
EPNR3015-1R5N	1.5	30%	50	2.00	1.70	100
EPNR3015-1R8N	1.8	30%	50	1.75	1.70	92
EPNR3015-2R2N	2.2	30%	60	1.60	1.60	86
EPNR3015-3R3M	3.3	20%	80	1.32	1.36	68
EPNR3015-4R7M	4.7	20%	125	1.10	1.09	46
EPNR3015-6R8M	6.8	20%	200	0.85	0.85	41
EPNR3015-100M	10	20%	250	0.72	0.77	39
EPNR3015-120M	12	20%	320	0.70	0.68	32
EPNR3015-150M	15	20%	350	0.66	0.65	30
EPNR3015-180M	18	20%	430	0.56	0.59	23
EPNR3015-220M	22	20%	460	0.52	0.57	23
EPNR3015-330M	33	20%	820	0.44	0.43	20
EPNR3015-470M	47	20%	1250	0.35	0.35	14

- 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