

# SMD Power Inductor



## Features

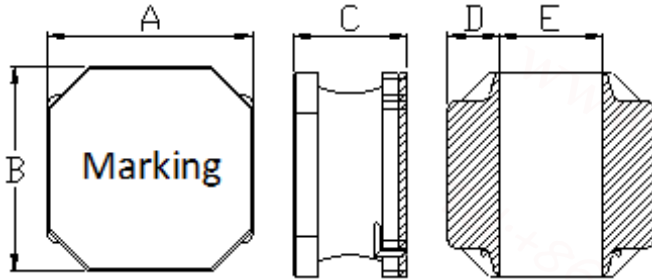
- ▶ Small and Low profile inductor
- ▶ It corresponds to High current.
- ▶ Simple and Shield structure.
- ▶ Takes up less PCB real estate and save more power
- ▶ Available tape and reel for auto insertion.
- ▶ RoHs compliant
- ▶ Halogen-Free



## Applications

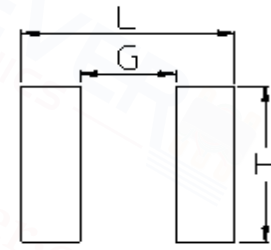
- ▶ For small DC/DC converter (cellular Phone, LCD/LED/OLED display etc).

## Dimension (Unit:mm)



A	B	C	D	E
3.0±0.2	3.0±0.2	1.2 Max.	0.75±0.2	1.5±0.2

## Land Pattern (Unit:mm)



L	G	H
3.1	1.5	2.7

## Specifications [Inductance Tested at 100kHz, 1Vrms (20°C)]

Part Number	Inductance (μH)	Tolerance (±)	DCR (mΩ) ±30%	Isat (A) Max.	Itemp (A) Max.	SRF (Min) (MHz)
EPNR3012-R82N	0.82	30%	30	2.05	2.47	180
EPNR3012-1R0N	1.0	30%	40	1.87	2.20	120
EPNR3012-1R2N	1.2	30%	45	1.70	2.01	120
EPNR3012-1R5N	1.5	30%	45	1.62	2.01	110
EPNR3012-1R8N	1.8	30%	63	1.30	1.65	90
EPNR3012-2R2N	2.2	30%	75	1.20	1.55	84
EPNR3012-3R3M	3.3	20%	100	1.05	1.36	64
EPNR3012-3R9M	3.9	20%	145	1.00	1.24	61
EPNR3012-4R7M	4.7	20%	145	0.90	1.24	61
EPNR3012-6R8M	6.8	20%	190	0.75	0.98	61
EPNR3012-100M	10	20%	265	0.60	0.83	42
EPNR3012-120M	12	20%	345	0.48	0.73	32
EPNR3012-150M	15	20%	360	0.45	0.71	27
EPNR3012-180M	18	20%	545	0.43	0.58	25
EPNR3012-220M	22	20%	645	0.42	0.53	23
EPNR3012-270M	27	20%	870	0.35	0.47	21
EPNR3012-330M	33	20%	875	0.36	0.46	18
EPNR3012-390M	39	20%	875	0.33	0.46	18
EPNR3012-470M	47	20%	1450	0.27	0.35	14
EPNR3012-680M	68	20%	1670	0.24	0.33	12