

COMMON MODE CHOKE, COUPLED INDUCTOR SDRH1614D SERIES



FEATURES:

- Low DCR, high rated current.
- Magnetic shielded structure
- Lead free product, RoHS compliant.
- Carrier tape packing, suitable for SMT process.

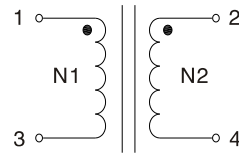
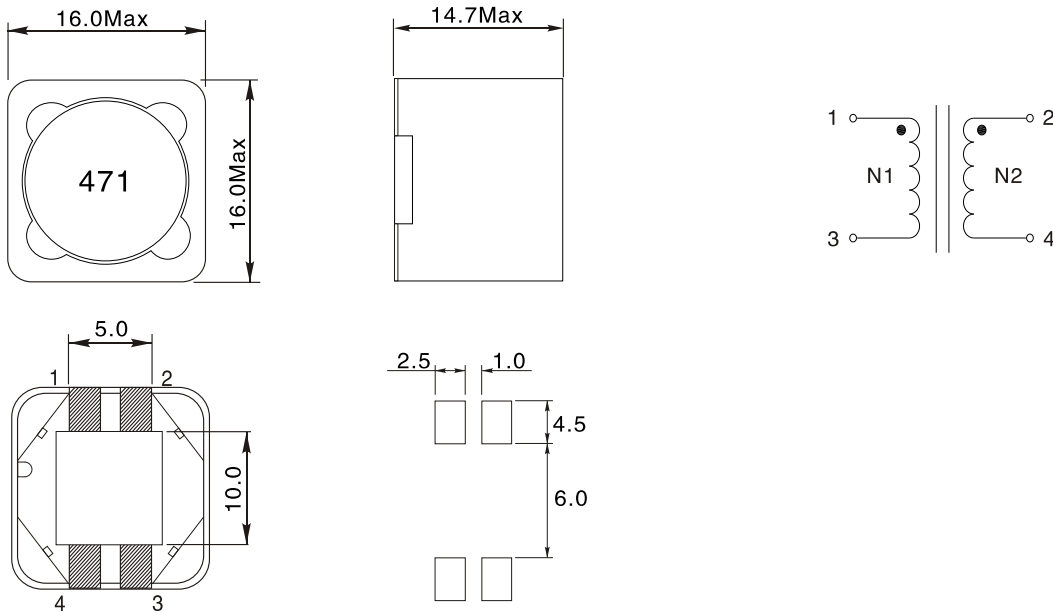
APPLICATIONS:

- Widely used in buck converter, laptop, displayer, network communication equipment, and etc.

ELECTRICAL CHARACTERISTICS@25°C

Part Number	Inductance (uH)	DCR (mΩ)Max	Leakage inductance (uH)Typ.	Saturation current(A)			Temperature rise current(A)	
				10%drop	20%drop	30%drop	Both windings	One winding
SDRH1614D-220M	22.0 ± 20%	36.0	0.45	9.1	9.6	10.2	3.8	5.4
SDRH1614D-270M	27.0 ± 20%	39.0	0.45	9.0	9.6	10.2	3.3	4.7
SDRH1614D-330M	33.0 ± 20%	42.0	0.45	7.4	8.2	9.0	3.2	4.5
SDRH1614D-470M	47.0 ± 20%	54.0	0.55	5.8	6.6	6.75	3.05	4.31
SDRH1614D-680M	68.0 ± 20%	65.0	0.55	5.3	5.7	5.9	2.72	3.84
SDRH1614D-101M	100 ± 10%	93.0	0.55	4.35	4.75	4.95	2.08	2.94
SDRH1614D-221M	220 ± 10%	172.0	0.7	2.95	3.2	3.3	1.61	2.27
SDRH1614D-331M	330 ± 10%	258.0	0.8	2.55	2.65	2.78	1.32	1.86
SDRH1614D-471M	470 ± 10%	382.0	1.2	2.0	2.2	2.3	1.03	1.46
SDRH1614D-102M	1000 ± 10%	786.0	2.0	1.45	1.55	1.6	0.78	1.1

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



- All data is tested based on 25°C ambient temperature
- Inductance measure condition at 100kHz, 0.1V
- Leakage inductance is for N1 and is measured with N2 shorted
- Saturation current: the actual value of DC current when the inductance decrease corresponding percentage of its initial value
- Temperature rise current: the actual value of DC current when the temperature rise is $\Delta T40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$)
- Operating temperature: -40°C to $+125^{\circ}\text{C}$ (Including self temperature rise)
- Special remind: Circuit design, component placement, PCB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

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SATURATION CURRENT VS TEMPERATURE RISE CURRENT CURVE

