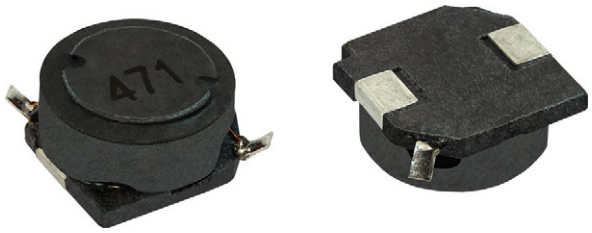
Ferrite Power Inductor, Shielded Drumcore



FEATURES

- 7.6 mm x 7.6 mm x 3.5 mm size
- Shielded, assembled ferrite construction
- Inductance range 3.3 µH to 470 µH
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

HALOGEN FREE GREEN (5-2008)

APPLICATIONS

- DC/DC power supplies
- Noise suppression and filtering

STANDARD ELECTRICAL SPECIFICATIONS

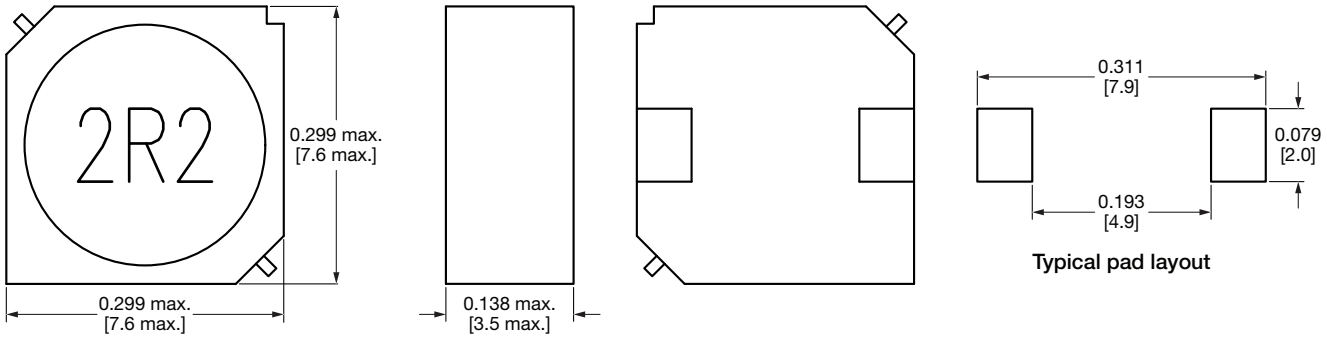
PART NUMBER	L_0 INDUCTANCE (µH)	INDUCTANCE TOLERANCE (%)	DCR MAX. (mΩ)	HEAT RATING CURRENT DC TYP. (A) (1)
IDCS3014ER3R3N	3.3	30	28	1.90
IDCS3014ER4R7N	4.7	30	43	1.70
IDCS3014ER6R8N	6.8	30	49	1.60
IDCS3014ER8R2N	8.2	30	59	1.50
IDCS3014ER100M	10	20	64	1.40
IDCS3014ER150M	15	20	90	1.10
IDCS3014ER220M	22	20	132	0.96
IDCS3014ER330M	33	20	192	0.75
IDCS3014ER470M	47	20	288	0.67
IDCS3014ER680M	68	20	372	0.59
IDCS3014ER820M	82	20	455	0.52
IDCS3014ER101M	100	20	540	0.60
IDCS3014ER151M	150	20	780	0.37
IDCS3014ER221M	220	20	1260	0.29
IDCS3014ER331M	330	20	2004	0.33
IDCS3014ER471M	470	20	2460	0.20

Notes

- All test data is referenced to 25 °C ambient
- Operating temperature is -40 °C to +105 °C
- Test condition: 100 kHz, 0.3 V for 8.2 µH and below, and 1 kHz, 0.3 V for 10 µH and above
- Storage condition: -40 °C to +105 °C (on board); and -10 °C to +40 °C and < 70 % RH (in component packaging)
- Resistance to solder heat: 255 °C for 10 s (2 times max. through reflow)

(1) DC current (A) that will cause an approximate ΔT of 40 °C or cause L_0 to drop by 25 %, whichever is lower

DIMENSIONS in inches [millimeters]



Typical pad layout

DESCRIPTION

IDCS3014	2.2 µH	± 30 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I D C S	3 0 1 4	E R	2 R 2	N
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE
		ER = tape and reel	**2R2** = 2.2 µH	**M** = ± 20 % **N** = ± 30 %

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