

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 μ H to 1000 μ H
- Material categorization:
for definitions of compliance please see
www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

APPLICATIONS

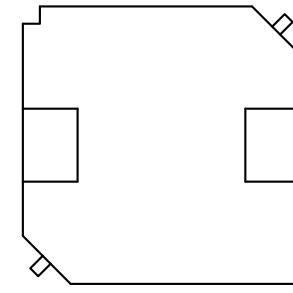
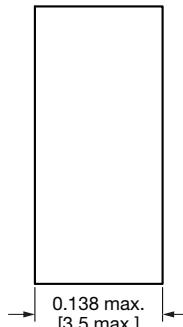
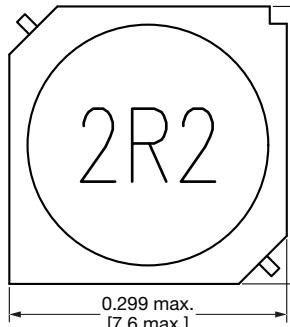
- DC/DC power supplies
- Noise suppression and filtering

STANDARD ELECTRICAL SPECIFICATIONS				
PART NUMBER	L ₀ INDUCTANCE (μ H)	INDUCTANCE TOLERANCE (%)	DCR MAX. (m Ω)	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
IDCS3014ER102M	1000	20	5800	0.18

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 μ H and below, and 1 kHz, 0.3 V for 10 μ H 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 L₀ to drop by 25 %, whichever is lower

DIMENSIONS in inches [millimeters]

Typical pad layout
DESCRIPTION

MODEL	2.2 μ H	\pm 30 %	ER	e3
	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 μ H M = \pm 20 % N = \pm 30 %

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