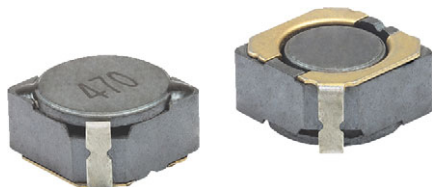


Ferrite Power Inductor, Shielded Drum Core



LINKS TO ADDITIONAL RESOURCES


[Product Page](#)

ELECTRICAL SPECIFICATIONS

Operating temperature:

-40 °C to +105 °C (temperature rise included)

Resistance to solder heat:

255 °C for 10 s (2 times max. through reflow)

FEATURES

- 7.0 mm x 7.0 mm x 4.0 mm max. SMD package
- Shielded drum core ferrite construction for reduced leakage flux
- Inductance range: 1.5 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

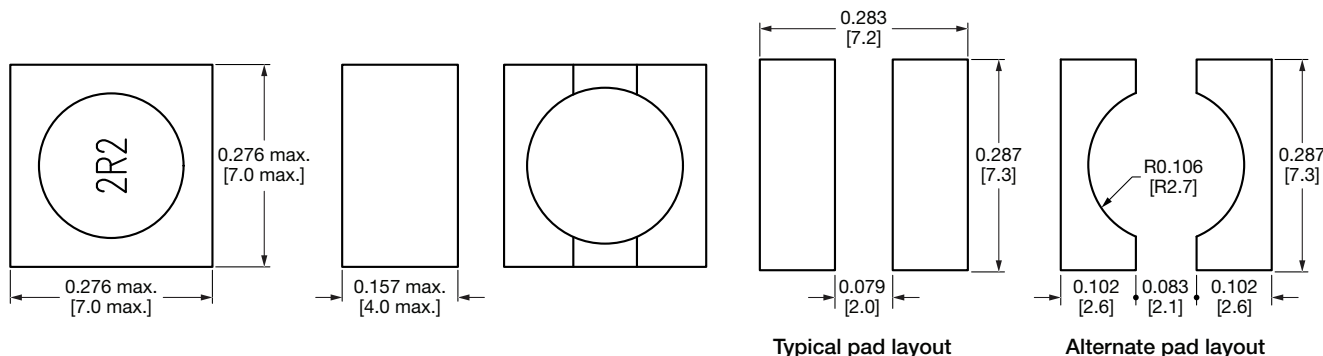
- DC/DC power supplies
- Noise suppression and filtering

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	L ₀ INDUCTANCE (μ H)	INDUCTANCE TOLERANCE (%)	DCR MAX. (m Ω)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾	SATURATION CURRENT DC TYP. (A) ⁽²⁾
IFDC2525DZER1R5N	1.5	30	15	5.20	5.20
IFDC2525DZER2R2N	2.2	30	18	4.50	4.50
IFDC2525DZER3R3N	3.3	30	20	3.50	3.50
IFDC2525DZER4R7N	4.7	30	25	2.80	2.80
IFDC2525DZER6R8N	6.8	30	29	2.40	2.40
IFDC2525DZER8R2N	8.2	30	34	2.20	2.20
IFDC2525DZER100M	10	20	38	2.00	2.00
IFDC2525DZER120M	12	20	53	1.70	1.70
IFDC2525DZER150M	15	20	57	1.60	1.60
IFDC2525DZER180M	18	20	92	1.50	1.50
IFDC2525DZER220M	22	20	96	1.30	1.30
IFDC2525DZER270M	27	20	109	1.20	1.20
IFDC2525DZER330M	33	20	124	1.10	1.10
IFDC2525DZER390M	39	20	138	1.00	1.00
IFDC2525DZER470M	47	20	155	0.95	0.95
IFDC2525DZER560M	56	20	202	0.85	0.85
IFDC2525DZER680M	68	20	234	0.75	0.75
IFDC2525DZER820M	82	20	324	0.70	0.70
IFDC2525DZER101M	100	20	358	0.65	0.65
IFDC2525DZER121M	120	20	470	0.59	0.59
IFDC2525DZER151M	150	20	580	0.54	0.54
IFDC2525DZER181M	180	20	690	0.49	0.49
IFDC2525DZER221M	220	20	890	0.43	0.43
IFDC2525DZER271M	270	20	1290	0.40	0.40
IFDC2525DZER331M	330	20	1700	0.37	0.37
IFDC2525DZER391M	390	20	1750	0.34	0.34
IFDC2525DZER471M	470	20	2200	0.32	0.32
IFDC2525DZER561M	560	20	2850	0.29	0.29
IFDC2525DZER821M	820	20	4050	0.22	0.22
IFDC2525DZER102M	1000	20	5700	0.20	0.20

Notes

- All test data is referenced to 25 °C ambient
- 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)
- ⁽¹⁾ DC current (A) that will result in Δ T no greater than 40 °C
- ⁽²⁾ DC current (A) that will result in L₀ drop no greater than 35 %

DIMENSIONS in inches [millimeters]

DESCRIPTION

IFDC2525DZ	2.2 μH	$\pm 30 \%$	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I F D C	2 5 2 5 D Z	E R	2 R 2	N
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE
		ER = tape and reel	2R2 = 2.2 μH	M = $\pm 20 \%$ N = $\pm 30 \%$



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