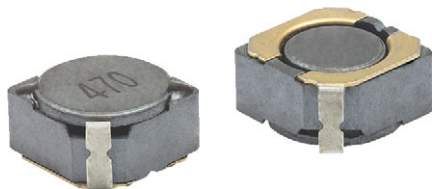


Ferrite Power Inductor, Shielded Drum Core



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)

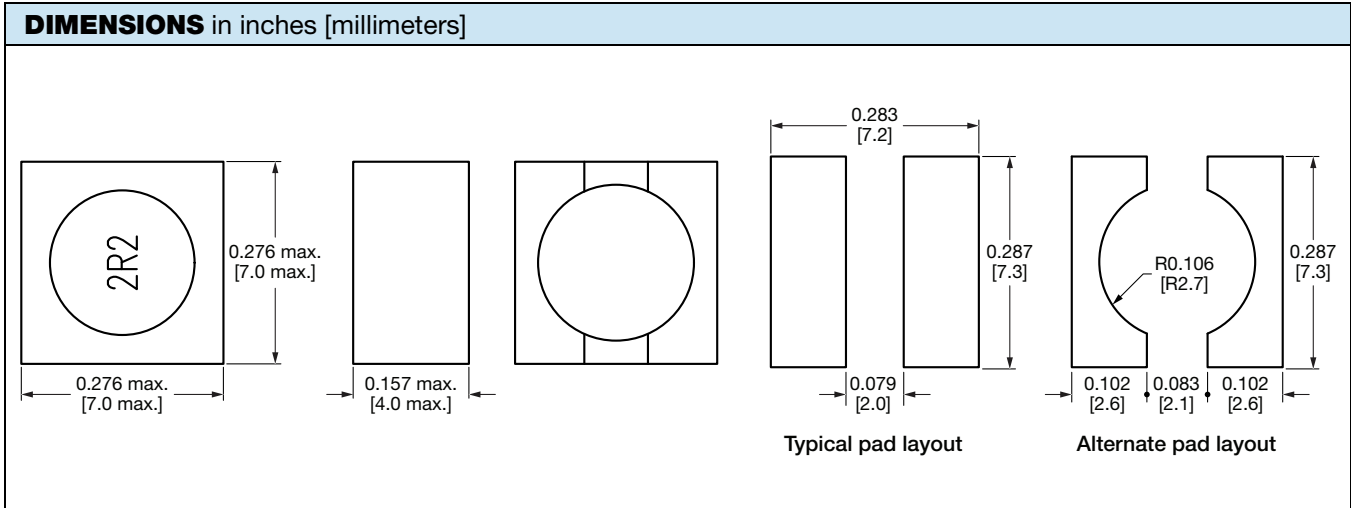
APPLICATIONS

- 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⁾ |
| IFDC2525DZER1R5N | 1.5 | 30 | 15 | 5.20 |
| IFDC2525DZER2R2N | 2.2 | 30 | 18 | 4.50 |
| IFDC2525DZER3R3N | 3.3 | 30 | 20 | 3.50 |
| IFDC2525DZER4R7N | 4.7 | 30 | 25 | 2.80 |
| IFDC2525DZER6R2N | 6.2 | 30 | 29 | 2.60 |
| IFDC2525DZER6R8N | 6.8 | 30 | 29 | 2.40 |
| IFDC2525DZER8R2N | 8.2 | 30 | 34 | 2.20 |
| IFDC2525DZER100M | 10 | 20 | 38 | 2.00 |
| IFDC2525DZER120M | 12 | 20 | 53 | 1.70 |
| IFDC2525DZER150M | 15 | 20 | 57 | 1.60 |
| IFDC2525DZER180M | 18 | 20 | 92 | 1.50 |
| IFDC2525DZER220M | 22 | 20 | 96 | 1.30 |
| IFDC2525DZER270M | 27 | 20 | 109 | 1.20 |
| IFDC2525DZER330M | 33 | 20 | 124 | 1.10 |
| IFDC2525DZER390M | 39 | 20 | 138 | 1.00 |
| IFDC2525DZER470M | 47 | 20 | 155 | 0.95 |
| IFDC2525DZER560M | 56 | 20 | 202 | 0.85 |
| IFDC2525DZER680M | 68 | 20 | 234 | 0.75 |
| IFDC2525DZER820M | 82 | 20 | 324 | 0.70 |
| IFDC2525DZER101M | 100 | 20 | 358 | 0.65 |
| IFDC2525DZER121M | 120 | 20 | 470 | 0.59 |
| IFDC2525DZER151M | 150 | 20 | 580 | 0.54 |
| IFDC2525DZER181M | 180 | 20 | 690 | 0.49 |
| IFDC2525DZER221M | 220 | 20 | 890 | 0.43 |
| IFDC2525DZER271M | 270 | 20 | 1290 | 0.40 |
| IFDC2525DZER331M | 330 | 20 | 1700 | 0.37 |
| IFDC2525DZER391M | 390 | 20 | 1750 | 0.34 |
| IFDC2525DZER471M | 470 | 20 | 2200 | 0.32 |
| IFDC2525DZER561M | 560 | 20 | 2850 | 0.29 |
| IFDC2525DZER821M | 820 | 20 | 4050 | 0.22 |
| IFDC2525DZER102M | 1000 | 20 | 5700 | 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 cause an approximate Δ T of 40 °C or cause L₀ to drop by 35 %, whichever is lower



| 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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