



Ferrite Power Inductor, Drum Core





LINKS TO ADDITIONAL RESOURCES



FEATURES

- 7.8 mm x 7.0 mm x 5.3 mm size
- Ferrite drum core construction, unshielded
- Inductance range 1 μH to 2200 μH
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS COMPLIANT **HALOGEN** FREE **GREEN** (5-2008)

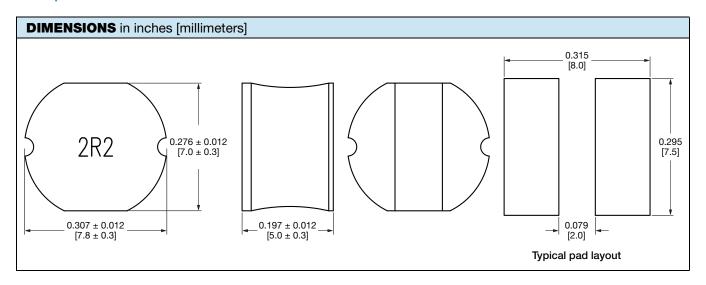
APPLICATIONS

- DC/DC power supplies
- · Noise suppression and filtering

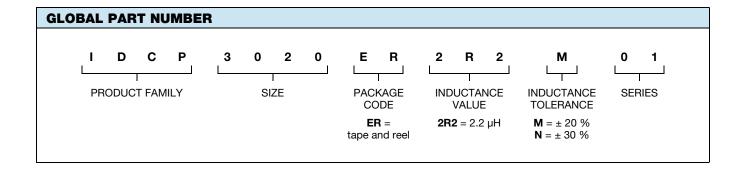
STANDARD ELECTRICAL SPECIFICATIONS						
PART NUMBER	L ₀ INDUCTANCE (μH)	INDUCTANCE TOLERANCE (%)	DCR MAX. (mΩ)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾		
IDCP3020ER1R0M01	1	20	19	5.80		
IDCP3020ER1R5M01	1.5	20	28	5.30		
IDCP3020ER2R2M01	2.2	20	35	4.50		
IDCP3020ER3R3M01	3.3	20	45	4.00		
IDCP3020ER4R7M01	4.7	20	58	3.20		
IDCP3020ER6R8M01	6.8	20	70	2.80		
IDCP3020ER8R2M01	8.2	20	75	2.50		
IDCP3020ER100M01	10	20	78	2.30		
IDCP3020ER120M01	12	20	85	2.00		
IDCP3020ER150M01	15	20	90	1.80		
IDCP3020ER180M01	18	20	100	1.60		
IDCP3020ER220M01	22	20	110	1.50		
IDCP3020ER270M01	27	20	120	1.30		
IDCP3020ER330M01	33	20	130	1.20		
IDCP3020ER390M01	39	20	160	1.10		
IDCP3020ER470M01	47	20	180	1.00		
IDCP3020ER560M01	56	20	240	0.94		
IDCP3020ER680M01	68	20	280	0.85		
IDCP3020ER820M01	82	20	370	0.78		
IDCP3020ER101M01	100	20	430	0.72		
IDCP3020ER121M01	120	20	470	0.66		
IDCP3020ER151M01	150	20	640	0.58		
IDCP3020ER181M01	180	20	710	0.51		
IDCP3020ER221M01	220	20	960	0.49		
IDCP3020ER221K01	220	10	960	0.49		
IDCP3020ER271M01	270	20	1110	0.42		
IDCP3020ER331M01	330	20	1260	0.40		
IDCP3020ER391M01	390	20	1770	0.36		
IDCP3020ER471M01	470	20	1960	0.34		
IDCP3020ER681K01	680	10	2400	0.31		
IDCP3020ER821K01	820	10	2650	0.30		
IDCP3020ER102K01	1000	10	3150	0.29		
IDCP3020ER122K01	1200	10	4500	0.28		
IDCP3020ER152K01	1500	10	5000	0.21		
IDCP3020ER182K01	1800	10	6000	0.20		
IDCP3020ER222K01	2200	10	6800	0.19		

- 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

Revision: 17-Sep-2024 Document Number: 34630 www.vishay.com Vishay Dale



DESCRIPTION							
IDCP3020-01	2.2 μΗ	± 20 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD			





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