

## Ferrite Power Inductor, Drumcore



### FEATURES

- 5.8 mm x 5.2 mm x 4.5 mm size
- Ferrite drumcore construction, unshielded
- Inductance range 1  $\mu$ H to 680  $\mu$ H
- Material categorization:  
for definitions of compliance please see  
[www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



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

### LINKS TO ADDITIONAL RESOURCES


[Product Page](#)

### APPLICATIONS

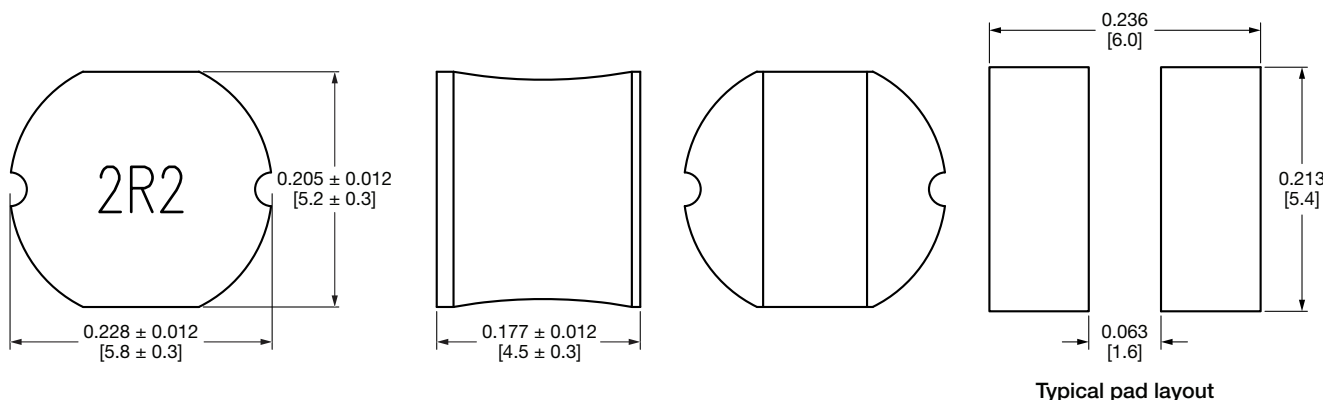
- DC/DC power supplies
- Noise suppression and filtering

### STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	L <sub>0</sub> INDUCTANCE ( $\mu$ H)	INDUCTANCE TOLERANCE (%)	DCR MAX. (m $\Omega$ )	HEAT RATING CURRENT DC TYP. (A) <sup>(1)</sup>
IDCP2218ER1R0M01	1	20	20	4.00
IDCP2218ER1R5M01	1.5	20	25	3.80
IDCP2218ER2R2M01	2.2	20	27	3.50
IDCP2218ER2R7M01	2.7	20	30	3.20
IDCP2218ER3R3M01	3.3	20	34	3.00
IDCP2218ER4R7M01	4.7	20	40	2.80
IDCP2218ER6R8M01	6.8	20	80	2.50
IDCP2218ER8R2M01	8.2	20	90	2.10
IDCP2218ER100M01	10	20	100	1.50
IDCP2218ER120M01	12	20	120	1.40
IDCP2218ER150M01	15	20	140	1.30
IDCP2218ER180M01	18	20	150	1.23
IDCP2218ER220M01	22	20	180	1.11
IDCP2218ER270M01	27	20	200	0.97
IDCP2218ER330M01	33	20	230	0.88
IDCP2218ER390M01	39	20	320	0.80
IDCP2218ER470M01	47	20	370	0.72
IDCP2218ER560M01	56	20	420	0.68
IDCP2218ER680M01	68	20	460	0.61
IDCP2218ER820M01	82	20	600	0.58
IDCP2218ER101M01	100	20	700	0.52
IDCP2218ER121M01	120	20	930	0.48
IDCP2218ER151M01	150	20	1100	0.40
IDCP2218ER181M01	180	20	1380	0.38
IDCP2218ER221M01	220	20	1570	0.35
IDCP2218ER221K01	220	10	1570	0.35
IDCP2218ER271K01	270	10	1500	0.25
IDCP2218ER331K01	330	10	3000	0.22
IDCP2218ER391K01	390	10	3500	0.20
IDCP2218ER471K01	470	10	4000	0.19
IDCP2218ER561K01	560	10	4000	0.18
IDCP2218ER681K01	680	10	4500	0.15

### 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  $\mu$ H and below, and 1 kHz, 0.3 V for 10  $\mu$ 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)
- <sup>(1)</sup> DC current (A) that will cause an approximate  $\Delta$ T of 40 °C or cause L<sub>0</sub> to drop by 25 %, whichever is lower

**DIMENSIONS** in inches [millimeters]

**DESCRIPTION**
**IDCP2218-01**

MODEL

**2.2  $\mu$ H**

INDUCTANCE VALUE

 **$\pm 20 \%$** 

INDUCTANCE TOLERANCE

**ER**

PACKAGE CODE

**GLOBAL PART NUMBER**

<b>I D C P</b>	<b>2 2 1 8</b>	<b>E R</b>	<b>2 R 2</b>	<b>M</b>	<b>0 1</b>
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	SERIES
		<b>ER</b> = tape and reel	<b>2R2</b> = 2.2 $\mu$ H	<b>M</b> = $\pm 20 \%$ <b>N</b> = $\pm 30 \%$	



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