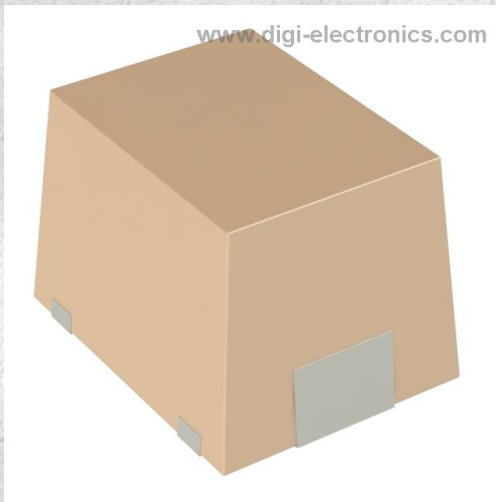


# IMC1210EB330J Datasheet



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	IMC1210EB330J-DG
Manufacturer	<a href="#">Vishay Dale</a>
Manufacturer Product Number	IMC1210EB330J
Description	FIXED IND 33UH 112MA 6 OHM SMD
Detailed Description	33 $\mu$ H Unshielded Drum Core, Wirewound Inductor 112 mA 6Ohm Max 1210 (3225 Metric)



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

IMC1210EB330J

Series:

IMC-1210

Type:

Drum Core, Wirewound

Inductance:

33  $\mu$ H

Current Rating (Amps):

112 mA

Shielding:

Unshielded

Q @ Freq:

30 @ 2.52MHz

Ratings:

-

Inductance Frequency - Test:

2.52 MHz

Package / Case:

1210 (3225 Metric)

Size / Dimension:

0.126" L x 0.098" W (3.20mm x 2.49mm)

Manufacturer:

Vishay Dale

Product Status:

Active

Material - Core:

Iron Powder

Tolerance:

$\pm$ 5%

Current - Saturation (Isat):

-

DC Resistance (DCR):

60hm Max

Frequency - Self Resonant:

16MHz

Operating Temperature:

-55°C ~ 125°C

Mounting Type:

Surface Mount

Supplier Device Package:

1210

Height - Seated (Max):

0.095" (2.41mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99





## Wirewound, Surface-Mount Molded Inductors



RoHS  
COMPLIANT

### FEATURES

- 3.2 mm x 2.5 mm x 2.2mm SMD size
- Printed marking
- Molded construction provides superior strength and moisture resistance
- Compatible with vapor phase and infrared reflow soldering
- Tape and reel packaging for automatic handling, 2000/reel, EIA-481
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)

### TEST EQUIPMENT

- HP4342A Q meter with Vishay Dale test fixture or equivalent
- HP4191A RF impedance analyzer (for SRF measurements)
- Wheatstone bridge

### ELECTRICAL SPECIFICATIONS

Inductance range: 0.01  $\mu$ H to 220  $\mu$ H

Special tolerances available upon request

Operating temperature: -55 °C to +125 °C

Coilform material: non-magnetic from 0.01  $\mu$ H to 0.10  $\mu$ H; powdered iron from 0.12  $\mu$ H to 100  $\mu$ H; ferrite from 120  $\mu$ H to 220  $\mu$ H

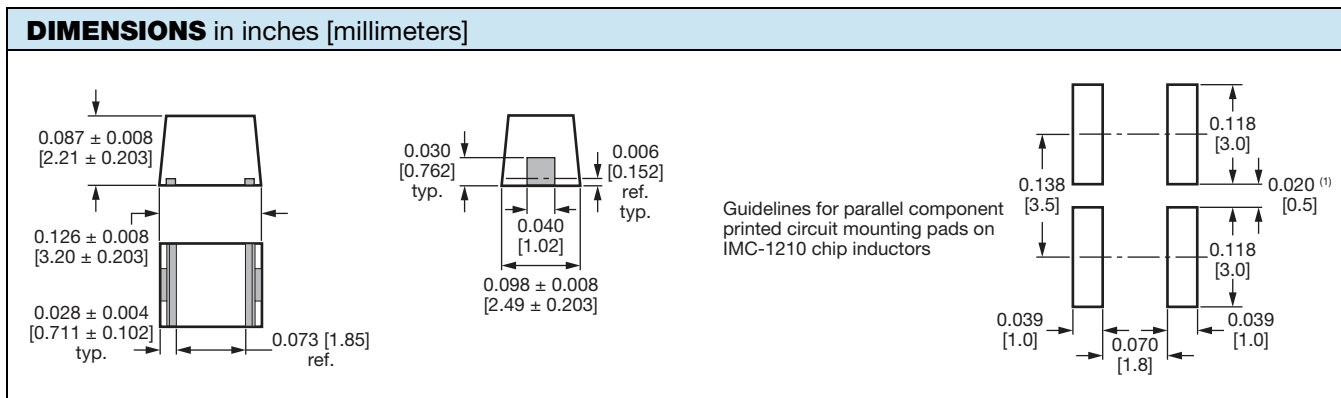
STANDARD ELECTRICAL SPECIFICATIONS							
PART NUMBER	IND. ( $\mu$ H)	TOL. (%)	TEST FREQ. (MHz)	Q MIN.	SRF MIN. (MHz)	DCR MAX. ( $\Omega$ )	RATED DC CURRENT (mA) <sup>(1)</sup>
			L & Q				
IMC1210ER10NM	0.010	20	50	30	1000	0.13	734
IMC1210ER12NM	0.012	20	50	30	1000	0.14	707
IMC1210ER15NM	0.015	20	50	30	1000	0.16	661
IMC1210ER18NM	0.018	20	50	30	1000	0.18	624
IMC1210ER22NM	0.022	20	50	30	1000	0.20	592
IMC1210ER27NM	0.027	20	50	30	1000	0.22	564
IMC1210ER33NM	0.033	20	50	30	1000	0.24	540
IMC1210ER39NM	0.039	20	50	30	1000	0.27	530
IMC1210ER47NM	0.047	20	50	30	1000	0.30	483
IMC1210ER56NM	0.056	20	50	30	1000	0.33	470
IMC1210ER68NM	0.068	20	50	30	1000	0.36	450
IMC1210ER82NM	0.082	20	50	30	900	0.40	450
IMC1210ERR10M	0.10	20	50	30	700	0.44	450
IMC1210ERR12M	0.12	20	25.2	30	500	0.22	584
IMC1210ERR15M	0.15	20	25.2	30	450	0.25	548
IMC1210ERR18M	0.18	20	25.2	30	400	0.28	518
IMC1210ERR22M	0.22	20	25.2	30	350	0.32	484
IMC1210ERR27M	0.27	20	25.2	30	320	0.36	456
IMC1210ERR33M	0.33	20	25.2	30	300	0.40	453
IMC1210ERR39M	0.39	20	25.2	30	250	0.45	450
IMC1210ERR47M	0.47	20	25.2	30	220	0.50	450
IMC1210ERR56M	0.56	20	25.2	30	180	0.55	450
IMC1210ERR68M	0.68	20	25.2	30	160	0.60	450
IMC1210ERR82M	0.82	20	25.2	30	140	0.67	450
IMC1210ER1R0K	1.0	10	7.96	30	120	0.70	400
IMC1210ER1R2K	1.2	10	7.96	30	100	0.75	390
IMC1210ER1R5K	1.5	10	7.96	30	85	0.85	370



STANDARD ELECTRICAL SPECIFICATIONS							
PART NUMBER	IND. (μH)	TOL. (%)	TEST FREQ. (MHz)	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) <sup>(1)</sup>
			L & Q				
IMC1210ER1R8K	1.8	10	7.96	30	80	0.90	350
IMC1210ER2R2K	2.2	10	7.96	30	75	1.0	320
IMC1210ER2R7K	2.7	10	7.96	30	70	1.1	290
IMC1210ER3R3K	3.3	10	7.96	30	60	1.2	260
IMC1210ER3R9K	3.9	10	7.96	30	55	1.3	250
IMC1210ER4R7K	4.7	10	7.96	30	50	1.5	224
IMC1210ER5R6K	5.6	10	7.96	30	45	1.6	217
IMC1210ER6R8K	6.8	10	7.96	30	40	1.8	204
IMC1210ER8R2K	8.2	10	7.96	30	38	2.0	194
IMC1210ER100K	10	10	2.52	30	33	2.1	189
IMC1210ER120K	12	10	2.52	30	30	2.5	173
IMC1210ER150K	15	10	2.52	30	21	2.8	164
IMC1210ER180K	18	10	2.52	30	20	3.3	151
IMC1210ER220K	22	10	2.52	30	19	3.7	145
IMC1210ER270K	27	10	2.52	30	18	5.0	122
IMC1210ER330K	33	10	2.52	30	16	6.0	112
IMC1210ER390K	39	10	2.52	30	15	7.0	104
IMC1210ER470K	47	10	2.52	30	14	9.0	91
IMC1210ER560K	56	10	2.52	30	12	10.0	87
IMC1210ER680K	68	10	2.52	30	11	11.0	83
IMC1210ER820K	82	10	2.52	30	10	12.0	79
IMC1210ER101K	100	10	0.796	20	9	14.0	73
IMC1210ER121K	120	10	0.796	15	8	11.0	70
IMC1210ER151K	150	10	0.796	15	6.5	15.0	65
IMC1210ER181K	180	10	0.796	15	6	17.0	60
IMC1210ER221K	220	10	0.796	15	6	21.0	50

**Note**

(1) Rated DC current based on the maximum temperature rise, not to exceed 40 °C at +85 °C ambient



**Note**

(1) Recommended spacing between components

PART MARKING
- Vishay Dale
- Inductance code
- Date code



DESCRIPTION				
<b>IMC-1210</b>	<b>10 µH</b>	<b>± 10 %</b>	<b>ER</b>	<b>e3</b>
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER																	
<table border="1"> <tr> <td>I</td> <td>M</td> <td>C</td> </tr> </table> <p>PRODUCT FAMILY</p>	I	M	C	<table border="1"> <tr> <td>1</td> <td>2</td> <td>1</td> <td>0</td> </tr> </table> <p>SIZE</p>	1	2	1	0	<table border="1"> <tr> <td>E</td> <td>R</td> </tr> </table> <p>PACKAGE CODE</p>	E	R	<table border="1"> <tr> <td>1</td> <td>0</td> <td>0</td> </tr> </table> <p>INDUCTANCE VALUE</p>	1	0	0	<table border="1"> <tr> <td>K</td> </tr> </table> <p>TOL.</p>	K
I	M	C															
1	2	1	0														
E	R																
1	0	0															
K																	



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