

IMC1210EBR22K Datasheet



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DiGi Electronics Part Number IMC1210EBR22K-DG

Manufacturer Vishay Dale

Manufacturer Product Number IMC1210EBR22K

Description FIXED IND 220NH 484MA 320MOHM SM

Detailed Description 220 nH Unshielded Drum Core, Wirewound Inducto

r 484 mA 320mOhm Max 1210 (3225 Metric)



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
IMC1210EBR22K	Vishay Dale
Series:	Product Status:
IMC-1210	Active
Type:	Material - Core:
Drum Core, Wirewound	Iron Powder
Inductance:	Tolerance:
220 nH	±10%
Current Rating (Amps):	Current - Saturation (Isat):
484 mA	
Shielding:	DC Resistance (DCR):
Unshielded	320mOhm Max
Q @ Freq:	Frequency - Self Resonant:
30 @ 25.2MHz	350MHz
Ratings:	Operating Temperature:
	-55°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
25.2 MHz	Surface Mount
Package / Case:	Supplier Device Package:
1210 (3225 Metric)	1210
Size / Dimension:	Height - Seated (Max):
0.126" L x 0.098" W (3.20mm x 2.49mm)	0.095" (2.41mm)

Environmental & Export classification

8504.50.8000

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	



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Vishay Dale

Wirewound, Surface-Mount Molded Inductors

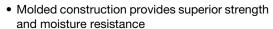


TEST EQUIPMENT

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

FEATURES

- 3.2 mm x 2.5 mm x 2.2mm SMD size
- Printed marking





RoHS COMPLIANT

- 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

ELECTRICAL SPECIFICATIONS

Inductance range: 0.01 μH to 220 μH Special tolerances available upon request Operating temperature: -55 °C to +125 °C

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

STANDARD ELECTRICAL SPECIFICATIONS							
PART NUMBER	IND. (µH)	TOL. (%)	TEST FREQ. (MHz) L & Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) (1)
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

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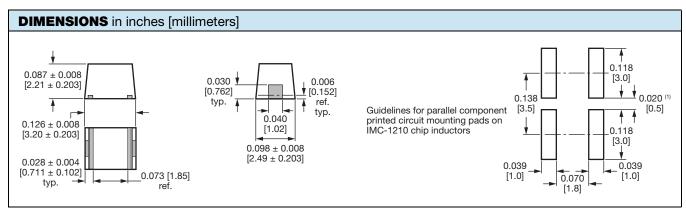
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STANDARD ELECTRICAL SPECIFICATIONS							
	IND.	TOL.	TEST FREQ. (MHz)	Q	SRF MIN.	DCR MAX.	RATED DC CURRENT
PART NUMBER	(µH)	(%)	L & Q	MIN.	(MHz)	(Ω)	(mA) ⁽¹⁾
IMC1210ER1R8K	1.8	10	7.96	30	80	0.90	350
IMC1210ER2R2K	2.2	10	7.96	30	75	1.0	320
IMC1210ER2R7K	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



IMC-1210

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

GLOBAL PART NUMBER								
PRODUCT FAMILY	1 2 1 0 SIZE	PACKAGE CODE	1 0 0 INDUCTANCE VALUE	K TOL.				



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