

ISC1210EB2R2K Datasheet



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DiGi Electronics Part Number ISC1210EB2R2K-DG

Manufacturer Vishay Dale

Manufacturer Product Number ISC1210EB2R2K

Description FIXED IND 2.2UH 320MA 900MOHM SM

Detailed Description 2.2 µH Shielded Drum Core, Wirewound Inductor 32

0 mA 900mOhm Max 1210 (3225 Metric)



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DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
ISC1210EB2R2K	Vishay Dale
Series:	Product Status:
ISC-1210	Active
Type:	Material - Core:
Drum Core, Wirewound	Iron Powder
Inductance:	Tolerance:
2.2 μΗ	±10%
Current Rating (Amps):	Current - Saturation (Isat):
320 mA	
Shielding:	DC Resistance (DCR):
Shielded	900mOhm Max
Q @ Freq:	Frequency - Self Resonant:
30 @ 7.96MHz	65MHz
Ratings:	Operating Temperature:
	-55°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
7.96 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:	



www.vishay.com

Vishay Dale

RoHS

COMPLIANT

HALOGEN

FREE

Wirewound, Surface-Mount, Molded, Shielded Inductors



STANDARD ELECTRICAL SPECIFICATIONS							
IND. (µH)	TOL.	TEST FREQ. (MHz) L & Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) ⁽¹⁾	
0.010 0.012 0.015 0.018 0.022 0.027 0.033 0.039 0.047 0.056 0.082 0.10 0.12 0.27 0.33 0.39 0.47 0.56 0.68 0.82 1.0 1.2 1.5 1.5 1.8 2.2,7 3.3 4.7 5.6 8.2 10.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	± 20 % ± 10 %	50 50 50 50 50 50 50 50 50 50 25.2 25.2	50 50 50 50 45 45 40 40 40 40 40 40 40 40 40 40 40 40 40	1000 1000 1000 1000 1000 1000 1000 100	0.10 0.11 0.12 0.13 0.15 0.17 0.18 0.24 0.26 0.28 0.35 0.50 0.20 0.20 0.24 0.30 0.33 0.36 0.40 0.46 0.48 0.50 0.65 0.75 0.85 0.85 0.90 1.10 1.20 1.25 1.40 1.60 2.30 2.50 2.70 2.30 2.50 2.70 2.30 2.50 2.70 2.30 2.50 2.70 2.30 2.50 2.70	810 750 720 690 640 610 585 530 495 485 475 460 450 630 630 630 475 460 455 450 450 455 450 290 270 250 210 205 195 185 175 165 155 115 100 95 90 85 80	

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

FEATURES

- · Molded construction provides superior strength and moisture resistance
- Tape and reel packaging for automatic handling, 2000/reel, EIA-481
- · Compatible with vapor phase, infrared, and wave soldering methods
- Shielded construction minimizes coupling to other components
- · Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

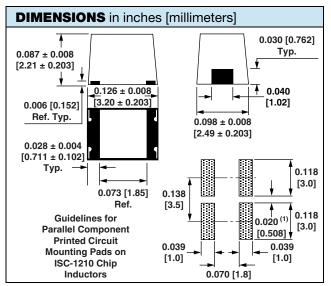
ELECTRICAL SPECIFICATIONS

Inductance range: 0.01 µH to 100 µH Special tolerances available upon request Operating temperature: -55 °C to +125 °C

Coilform material: non-magnetic for 0.01 µH to 0.10 µH;; powdered iron for 0.12 µH to 100 µH

TEST EQUIPMENT

- H/P 4342A Q meter with Vishay Dale test fixture or equivalent
- H/P 4191A RF impedance analyzer (for SRF measurements)
- Wheatstone bridge

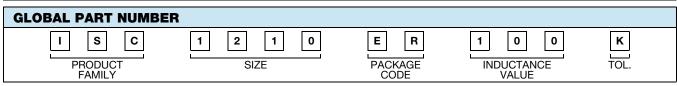


Recommended minimum spacing between components

PART MARKING

- Vishay Dale Inductance code
- Date code

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



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