

# **ISC1210EB1R0K Datasheet**

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DiGi Electronics Part Number	ISC1210EB1R0K-DG
Manufacturer	Vishay Dale
Manufacturer Product Number	ISC1210EB1R0K
Description	FIXED IND 1UH 400MA 600 MOHM SMD
Detailed Description	1 μH Shielded Drum Core, Wirewound Inductor 400 mA 600mOhm Max 1210 (3225 Metric)

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## Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
ISC1210EB1R0K	Vishay Dale
Series:	Product Status:
ISC-1210	Active
Туре:	Material - Core:
Drum Core, Wirewound	Iron Powder
Inductance:	Tolerance:
1 µН	±10%
Current Rating (Amps):	Current - Saturation (Isat):
400 mA	
Shielding:	DC Resistance (DCR):
Shielded	600mOhm Max
Q @ Freq:	Frequency - Self Resonant:
30 @ 7.96MHz	120MHz
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**

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.8000	



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Vishay Dale

RoHS

## Wirewound, Surface-Mount, Molded, Shielded Inductors



STAN	IDARD	ELEC.	TRIC/	AL SPE		ATIONS
IND. (µH)	TOL.	TEST FREQ. (MHz) L & Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) <sup>(1)</sup>
$\begin{array}{c} 0.010\\ 0.012\\ 0.015\\ 0.018\\ 0.022\\ 0.027\\ 0.033\\ 0.039\\ 0.047\\ 0.056\\ 0.068\\ 0.082\\ 0.10\\ 0.12\\ 0.15\\ 0.18\\ 0.22\\ 0.27\\ 0.33\\ 0.39\\ 0.47\\ 0.56\\ 0.68\\ 0.82\\ 1.0\\ 1.2\\ 1.5\\ 1.8\\ 2.2\\ 2.7\\ 3.9\\ 4.7\\ 5.6\\ 6.8\\ 8.2\\ 10.0\\ 12.0\\ 15.0\\ 12.0\\ 39.0\\ 47.0\\ 56.0\\ 68.0\\ 82.0\\ 100.0\\ \end{array}$	$\begin{array}{l} \pm \pm$	$\begin{array}{c} 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\$	50555545450000000000000000000000000000	$\begin{array}{c} 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 200\\ 470\\ 330\\ 220\\ 200\\ 470\\ 330\\ 220\\ 200\\ 160\\ 120\\ 110\\ 90.0\\ 58.0\\ 52.0\\ 58.0\\ 55.0\\ 65.0\\ 65.0\\ 65.0\\ 65.0\\ 58.0\\ 52.0\\ 58.0\\ 58.0\\ 52.0\\ 58.0\\$	0.10 0.112 0.13 0.15 0.178 0.24 0.26 0.285 0.455 0.450 0.200 0.200 0.200 0.200 0.200 0.244 0.333 0.336 0.444 0.468 0.605 0.6055 0.900 1.205 1.200 2.300 2.300 2.300 2.300 2.300 2.300 2.300 2.300 2.300 2.300 2.300 2.300 2.300 2.500 2.300 2.300 2.500 2.300 2.500 2.300 2.500 2.700 3.300 5.1900 8.000 11.20 12.000 12.000 12.000 12.0000 12.0000 12.00000 12.00000 12.000000 12.000000000000000000000000000000000000	$\begin{array}{c} 810\\ 750\\ 640\\ 610\\ 5330\\ 495\\ 485\\ 460\\ 6300\\ 586\\ 500\\ 565\\ 500\\ 475\\ 460\\ 455\\ 400\\ 390\\ 3750\\ 220\\ 210\\ 205\\ 185\\ 155\\ 155\\ 125\\ 115\\ 100\\ 95\\ 905\\ 80\\ \end{array}$

Note

### **FEATURES**

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

#### **ELECTRICAL SPECIFICATIONS**

Inductance range: 0.01 µH to 100 µH

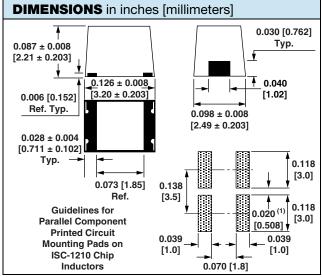
Special tolerances available upon request

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



#### Note

Recommended minimum spacing between components

PART MARKING 100.0 ± 10 % 0.796 30 6.0 12.0 80 Vishay Dale Inductance code Rated DC current based on the maximum temperature rise, not to exceed 40 °C at +85 °C ambient Date code DESCRIPTION ISC-1210 10 µH ± 10 % ER e3 PACKAGE CODE MODEL INDUCTANCE VALUE INDUCTANCE TOLERANCE JEDEC<sup>®</sup> LEAD (Pb)-FREE STANDARD **GLOBAL PART NUMBER** L s С 1 2 1 0 Е R 1 0 0 Κ INDUCTANCE PRODUCT SIZE PACKAGE TOL FAMILY CODE VALUE 1

Revision: 10-Sep-2019

For technical questions, contact: magnetics@vishay.com

Document Number: 34060

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