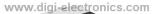


# **ISC1210BN2R7K** Datasheet





DiGi Electronics Part Number	ISC1210BN2R7K-DG
Manufacturer	Vishay Dale
Manufacturer Product Number	ISC1210BN2R7K
Description	FIXED IND 2.7UH 290MA 1 OHM SMD
Detailed Description	2.7 μH Shielded Drum Core, Wirewound Inductor 29 0 mA 10hm Max 1210 (3225 Metric)

https://www.DiGi-Electronics.com



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## Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
ISC1210BN2R7K	Vishay Dale
Series:	Product Status:
ISC-1210	Active
Туре:	Material - Core:
Drum Core, Wirewound	Iron Powder
Inductance:	Tolerance:
2.7 µН	±10%
Current Rating (Amps):	Current - Saturation (Isat):
290 mA	-
Shielding:	DC Resistance (DCR):
Shielded	10hm Max
Q @ Freq:	Frequency - Self Resonant:
30 @ 7.96MHz	60MHz
Ratings:	Operating Temperature:
-	-55℃ ~ 125℃
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):
RoHS non-compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Affected	EAR99
HTSUS:	
8504.50.8000	



www.vishay.com

Vishay Dale

RoHS

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



STAN	IDARD	ELEC.	<b>TRIC</b>	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>
$\begin{array}{c} 0.010\\ 0.012\\ 0.015\\ 0.018\\ 0.022\\ 0.027\\ 0.033\\ 0.039\\ 0.047\\ 0.056\\ 0.068\\ 0.068\\ 0.068\\ 0.068\\ 0.10\\ 0.12\\ 0.15\\ 0.18\\ 0.22\\ 0.27\\ 0.33\\ 0.39\\ 0.47\\ 0.56\\ 0.68\\ 0.82\\ 1.0\\ 1.2\\ 1.5\\ 1.8\\ 2.2\\ 2.7\\ 3.3\\ 3.9\\ 4.7\\ 5.6\\ 6.8\\ 8.2\\ 10.0\\ 12.0\\ 15.$	$\begin{array}{l} \pm 20 \\ \% \\ \% \\ \% \\ \% \\ \% \\ \% \\ \% \\ \% \\ \% \\ $	$\begin{array}{c} 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\$	$\begin{array}{c} 50\\ 500\\ 500\\ 550\\ 545\\ 440\\ 400\\ 400\\ $	$\begin{array}{c} 1000\\ 100\\ 1$	$\begin{array}{c} 0.10\\ 0.11\\ 0.12\\ 0.13\\ 0.15\\ 0.17\\ 0.18\\ 0.24\\ 0.26\\ 0.28\\ 0.35\\ 0.45\\ 0.50\\ 0.20\\$	$\begin{array}{c} 810\\ 750\\ 720\\ 690\\ 640\\ 610\\ 585\\ 530\\ 495\\ 485\\ 475\\ 460\\ 630\\ 600\\ 586\\ 500\\ 475\\ 465\\ 450\\ 455\\ 460\\ 455\\ 460\\ 455\\ 450\\ 400\\ 390\\ 370\\ 350\\ 290\\ 270\\ 250\\ 220\\ 210\\ 205\\ 195\\ 165\\ 155\\ 155\\ 155\\ 155\\ 155\\ 155\\ 105\\ 90\\ 85\\ 80\\ \end{array}$

Note

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
- 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

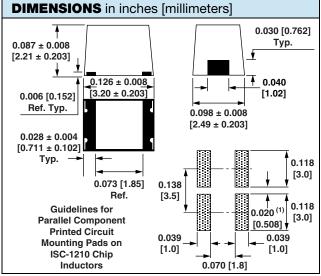
Special tolerances available upon request

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

VALUE

PART MARKING 80 Vishay Dale Inductance code Date code 10 µH ± 10 % ER e3 PACKAGE CODE INDUCTANCE VALUE INDUCTANCE TOLERANCE JEDEC<sup>®</sup> LEAD (Pb)-FREE STANDARD **GLOBAL PART NUMBER** С 1 2 1 0 Е R 1 0 0 Κ INDUCTANCE SIZE PACKAGE TOL

CODE

Revision: 10-Sep-2019

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PRODUCT

FAMILY

DESCRIPTION ISC-1210

MODEL

Document Number: 34060

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