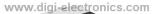


ISC1210BN820J Datasheet





DiGi Electronics Part Number	ISC1210BN820J-DG
Manufacturer	Vishay Dale
Manufacturer Product Number	ISC1210BN820J
Description	FIXED IND 82UH 85MA 11 OHM SMD
Detailed Description	82 μH Shielded Drum Core, Wirewound Inductor 85 mA 110hm Max 1210 (3225 Metric)

https://www.DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
ISC1210BN820J	Vishay Dale
Series:	Product Status:
ISC-1210	Active
Туре:	Material - Core:
Drum Core, Wirewound	Iron Powder
Inductance:	Tolerance:
82 µH	±5%
Current Rating (Amps):	Current - Saturation (Isat):
85 mA	-
Shielding:	DC Resistance (DCR):
Shielded	110hm Max
Q @ Freq:	Frequency - Self Resonant:
30 @ 2.52MHz	11MHz
Ratings:	Operating Temperature:
-	-55°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
2.52 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



STANDARD ELECTRICAL SPECIFICATIONS						
IND. (µH)	TOL.	TEST FREQ. (MHz) L & Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) ⁽¹⁾
$\begin{array}{c} 0.010\\ 0.012\\ 0.015\\ 0.018\\ 0.022\\ 0.027\\ 0.033\\ 0.039\\ 0.047\\ 0.056\\ 0.068\\ 0.082\\ 0.10\\ 0.12\\ 0.15\\ 0.18\\ 0.22\\ 0.27\\ 0.33\\ 0.39\\ 0.47\\ 0.56\\ 0.68\\ 0.82\\ 1.0\\ 1.2\\ 1.5\\ 1.8\\ 2.2\\ 2.7\\ 3.3\\ 3.9\\ 4.7\\ 5.6\\ 6.8\\ 8.2\\ 10.0\\ 12.0\\ 15.0\\ 12.0\\ 15.0\\ 12.0\\ 15.0\\ 15.0\\ 12.0\\ 33.0\\ 39.0\\ 47.0\\ 56.0\\ 68.0\\ 82.0\\ 100.0\\ \end{array}$	$\begin{array}{l} \pm 20 \\ \% \\ \% \\ \% \\ \% \\ \% \\ \% \\ \% \\ \% \\ \% \\ $	$\begin{array}{c} 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\$	$\begin{array}{c} 50\\ 50\\ 50\\ 50\\ 45\\ 45\\ 40\\ 40\\ 40\\ 40\\ 40\\ 40\\ 40\\ 40\\ 40\\ 40$	$\begin{array}{c} 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 200\\ 2$	$\begin{array}{c} 0.10\\ 0.11\\ 0.12\\ 0.13\\ 0.15\\ 0.17\\ 0.18\\ 0.24\\ 0.26\\ 0.28\\ 0.35\\ 0.50\\ 0.20\\$	$\begin{array}{c} 810\\ 750\\ 720\\ 690\\ 640\\ 610\\ 585\\ 530\\ 495\\ 485\\ 475\\ 460\\ 450\\ 630\\ 580\\ 565\\ 500\\ 475\\ 465\\ 460\\ 455\\ 465\\ 460\\ 455\\ 465\\ 460\\ 455\\ 465\\ 460\\ 390\\ 370\\ 320\\ 290\\ 270\\ 220\\ 210\\ 205\\ 195\\ 185\\ 175\\ 165\\ 155\\ 155\\ 155\\ 155\\ 155\\ 155\\ 105\\ 90\\ 90\\ 85\\ 80\\ \end{array}$

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

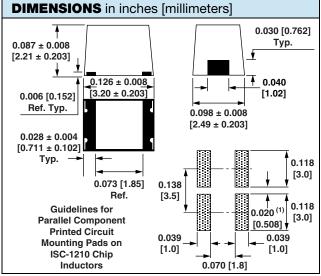
Special tolerances available upon request

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

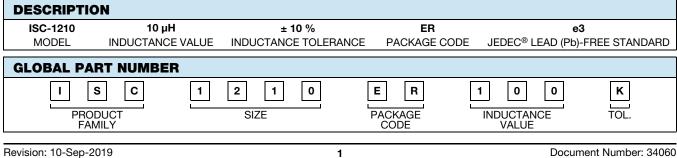


Note

Recommended minimum spacing between components

Vishay Dale Inductance code Date code

PART MARKING



For technical questions, contact: magnetics@vishay.com

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishav.com/doc?91000



Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Vishay products are not designed for use in life-saving or life-sustaining applications or any application in which the failure of the Vishay product could result in personal injury or death unless specifically qualified in writing by Vishay. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

© 2025 VISHAY INTERTECHNOLOGY, INC. ALL RIGHTS RESERVED

Revision: 01-Jan-2025

1



OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com

	<section-header></section-header>		
Marchine Marchine Marchine M	Market	Marchine Marchine Image: Control of the sector of the sec	





Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.