

# **Excellent Integrated System Limited**

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Vishay/Dale ISC1812BN100J

For any questions, you can email us directly: sales@integrated-circuit.com

## Distributor of Vishay/Dale: Excellent Integrated System Limited

Datasheet of ISC1812BN100J - FIXED IND 10UH 279MA 900 MOHM

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



www.vishay.com

ISC-1812

Vishay Dale

## Wirewound, Surface Mount, Molded, Shielded Inductors





				V	
TAI	NDARD	ELEC	TRICA	L SPE	CIF
		TEST FREQ.		SRF	DC

STAN	NDARD	ELEC	TRICA	L SPE	CIFIC	ATIONS
IND. (µH)	TOL.	TEST FREQ. (MHz) L & Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DO CURRENT (mA) (1)
0.10	± 20 %	25.2	30	460	0.23	552
0.12	± 20 %	25.2	30	400	0.26	519
0.15	± 20 %	25.2	30	390	0.29	491
0.18	± 20 %	25.2	30	350	0.32	468
0.22	± 20 %	25.2	30	310	0.36	441
0.33 0.39	± 20 % ± 20 %	25.2 25.2	30 30	280 240	0.40 0.45	418 394
0.39	± 20 % ± 20 %	25.2	30	215	0.45	342
0.56	± 20 %	25.2	30	205	0.75	306
0.68	± 20 %	25.2	30	195	0.80	296
0.82	± 20 %	25.2	30	165	0.95	271
8.0	± 20 %	25.2	30	155	1.20	242
1.0	± 10 %	7.96	30	140	0.35	447
1.2	± 10 %	7.96	30	120	0.38	429
1.5 1.8	± 10 % ± 10 %	7.96 7.96	30 30	100 90.0	0.40 0.43	418 403
2.2	± 10 %	7.96	30	80.0	0.43	390
2.7	± 10 %	7.96	30	67.0	0.49	378
3.3	± 10 %	7.96	30	61.0	0.55	357
3.9	± 10 %	7.96	30	56.0	0.59	344
4.7	± 10 %	7.96	30	50.0	0.62	336
5.6	± 10 %	7.96	30	40.0	0.69	333
6.8	± 10 %	7.96	30	32.0	0.75	306
8.2 10.0	± 10 % ± 10 %	7.96 2.52	30 50	30.0 25.0	0.82 0.90	292 279
12.0	± 10 %	2.52	50	22.0	1.00	265
15.0	± 10 %	2.52	50	18.0	1.10	252
18.0	± 10 %	2.52	50	15.0	1.24	238
22.0	± 10 %	2.52	50	14.0	1.36	227
27.0	± 10 %	2.52	50	13.0	1.56	212
33.0	± 10 %	2.52	50	12.0	1.72	202
39.0 47.0	± 10 % ± 10 %	2.52 2.52	50 50	11.0	1.89 2.10	192 183
56.0	± 10 % ± 10 %	2.52	50 50	9.0 8.0	2.10	173
68.0	± 10 %	2.52	50	7.6	2.60	164
82.0	± 10 %	2.52	50	7.2	2.86	156
100.0	± 10 %	0.796	40	7.0	3.25	147
120.0	± 10 %	0.796	40	6.0	3.64	139
150.0	± 10 %	0.796	40	5.0	4.16	130
180.0	± 10 %	0.796	40	4.5	5.72	111
220.0 270.0	± 10 % ± 10 %	0.796 0.796	40 40	4.2 4.0	6.30 6.90	105 101
330.0	± 10 %	0.796	40 40	3.7	7.54	96
390.0	± 10 %	0.796	40	3.5	8.20	92
470.0	± 10 %	0.796	40	3.3	9.20	87
560.0	± 10 %	0.796	30	2.8	10.50	82
680.0	± 10 %	0.796	40	2.6	12.00	76
820.0	± 10 %	0.796	30	2.2	13.50	72

### **FEATURES**

• Molded construction provides superior strength and moisture resistance



• Tape and reel packaging for automatic handling, 2000/reel, EIA-481

**RoHS** COMPLIANT

· Compatible with vapor phase and infrared reflow soldering

- HALOGEN FRFF
- Shielded construction minimizes coupling to other components
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

### **ELECTRICAL SPECIFICATIONS**

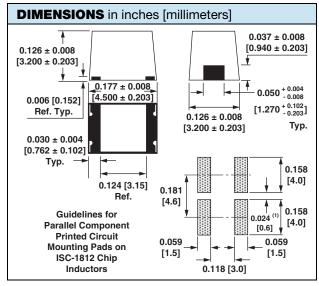
Inductance range: 0.10 µH to 1000 µH Special tolerances available upon request Operating temperature: -55 °C to +125 °C

Coilform material: Non-magnetic for 0.10 µH to 0.82 µH

Powdered iron for 1.0 µH to 22 µH Ferrite for 27 µH to 1000 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



(1) Recommended minimum spacing between components

### **PART MARKING**

- Vishay Dale
- Inductance value
- Date code

### 1000.0 Note

± 10 %

0.252

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

30

Revision: 02-Jun-15 Document Number: 34061

16.00



## Distributor of Vishay/Dale: Excellent Integrated System Limited

Datasheet of ISC1812BN100J - FIXED IND 10UH 279MA 900 MOHM

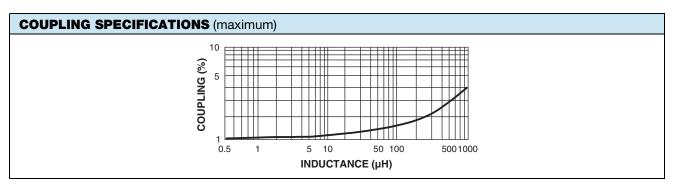
Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



www.vishay.com

ISC-1812

Vishay Dale



DESCRIPTION							
ISC-1812	10 μH	± 10 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD			

GLOBAL PART NUMBER				
I S C	1 8 1 2 SIZE	E R PACKAGE	1 0 0 INDUCTANCE	TOL.
FAMILY		CODE	VALUE	



## Distributor of Vishay/Dale: Excellent Integrated System Limited

Datasheet of ISC1812BN100J - FIXED IND 10UH 279MA 900 MOHM

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



www.vishay.com

## **Legal Disclaimer Notice**

Vishay

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

**Disclaimer** 

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.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. 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.

Revision: 13-Jun-16 1 Document Number: 91000