

ISC1210ER1R0K Datasheet



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DiGi Electronics Part Number ISC1210ER1R0K-DG

Manufacturer Vishay Dale

Manufacturer Product Number ISC1210ER1R0K

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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DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:		
ISC1210ER1R0K	Vishay Dale		
Series:	Product Status:		
ISC-1210	Active		
Type:	Material - Core:		
Drum Core, Wirewound	Iron Powder		
Inductance:	Tolerance:		
1 μΗ	±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

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 0.018 0.022 0.027 0.033 0.047 0.056 0.068 0.082 0.10 0.12 0.15 0.22 0.27 0.33 0.47 0.568 0.82 1.5 1.5 1.5 1.5 1.5 1.6 8.2 1.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	± 20 % % ± 20 % % % % % ± 20 % % % % % % ± 20 % % % % % % ± 20 % % % % % ± 20 % % % % % ± 20 % % % % % ± 20 % % % % % ± 20 % % % % % % % % % % % % % % % % % %	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	1000 1000 1000 1000 1000 1000 1000 100	0.10 0.11 0.12 0.13 0.15 0.17 0.26 0.28 0.30 0.20 0.20 0.20 0.20 0.30 0.44 0.46 0.48 0.50 0.65 0.75 0.85 0.90 1.10 1.20 1.25 1.40 1.65 2.30 2.50 2.70 3.30 3.30 5.10 5.90 1.00 1.10	810 750 690 640 610 585 530 495 485 475 460 450 450 455 450 455 450 455 450 290 270 250 210 205 195 115 115 115 115 115 115 115 115 11	

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 <u>www.vishay.com/doc?99912</u>

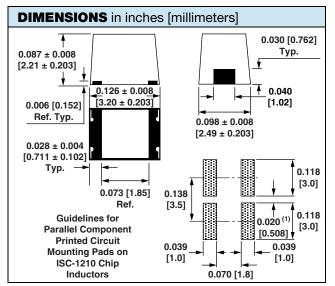
ELECTRICAL SPECIFICATIONS

Inductance range: $0.01~\mu H$ to $100~\mu H$ 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

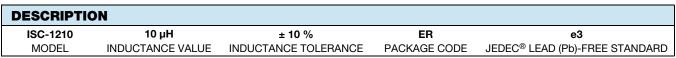
TEST EQUIPMENT

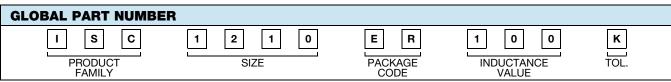
- H/P 4342A Q meter with Vishay Dale test fixture or equivalent
- H/P 4191A RF impedance analyzer (for SRF measurements)
- Wheatstone bridge



Note

(1) Recommended minimum spacing between components





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