

ISC1812ES220J Datasheet

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DiGi Electronics Part Number ISC1812ES220J-DG

Manufacturer Vishay Dale

Manufacturer Product Number ISC1812ES220J

Description FIXED IND 22UH 227MA 1.360HM SMD

Detailed Description 22 µH Shielded Drum Core, Wirewound Inductor 22

7 mA 1.360hm Max 1812 (4532 Metric)



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DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
ISC1812ES220J	Vishay Dale
Series:	Product Status:
ISC-1812	Active
Type:	Material - Core:
Drum Core, Wirewound	Iron Powder
Inductance:	Tolerance:
22 μΗ	±5%
Current Rating (Amps):	Current - Saturation (Isat):
227 mA	
Shielding:	DC Resistance (DCR):
Shielded	1.360hm Max
Q @ Freq:	Frequency - Self Resonant:
50 @ 2.52MHz	14MHz
Ratings:	Operating Temperature:
-	-55°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
2.52 MHz	Surface Mount
Package / Case:	Supplier Device Package:
1812 (4532 Metric)	1812
Size / Dimension:	Height - Seated (Max):
0.177" L x 0.126" W (4.50mm x 3.20mm)	0.134" (3.40mm)

Environmental & Export classification

8504.50.8000

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



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Vishay Dale

Wirewound, Surface-Mount, Molded, Shielded Inductors





Note

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

- infrared reflow HALOGEN FREE
- Shielded construction minimizes coupling to other components
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

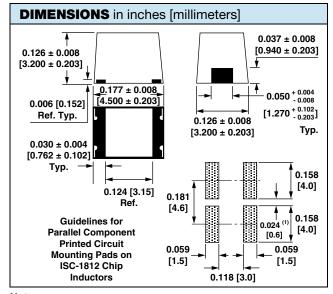
ELECTRICAL SPECIFICATIONS

Inductance range: $0.10~\mu H$ to $1000~\mu H$ 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



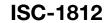
Note

(1) Recommended minimum spacing between components

PART MARKING

- Vishay Dale
- Inductance code
- Date code

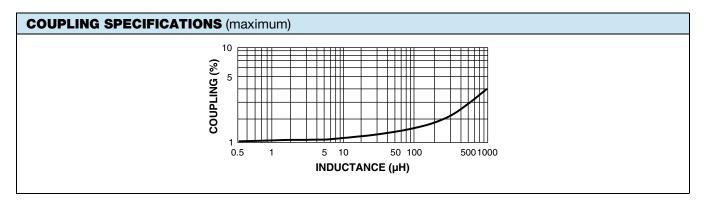
⁽¹⁾ Rated DC current based on the maximum temperature rise, not to exceed 40 °C at +85 °C ambient





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Vishay Dale



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

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



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