

IFCB0402ER1N5S Datasheet



DiGi Electronics Part Number

Manufacturer

Manufacturer Product Number

Description

Detailed Description

IFCB0402ER1N5S-DG

Vishay Dale

IFCB0402ER1N5S

FIXED IND 1.5NH 700MA 250MOHM SM

1.5 nH Unshielded Thin Film Inductor 700 mA 250m Ohm Max 0402 (1005 Metric)

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
IFCB0402ER1N5S	Vishay Dale
Series:	Product Status:
IFCB-0402	Active
Туре:	Material - Core:
Thin Film	-
Inductance:	Tolerance:
1.5 nH	±0.3nH
Current Rating (Amps):	Current - Saturation (Isat):
700 mA	-
Shielding:	DC Resistance (DCR):
Unshielded	250mOhm Max
Q @ Freq:	Frequency - Self Resonant:
7 @ 100MHz	10GHz
Ratings:	Operating Temperature:
-	-40°C ~ 85°C
Inductance Frequency - Test:	Mounting Type:
500 MHz	Surface Mount
Package / Case:	Supplier Device Package:
0402 (1005 Metric)	0402 (1005 Metric)
Size / Dimension:	Height - Seated (Max):
0.039" L x 0.020" W (1.00mm x 0.50mm)	0.015" (0.37mm)

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.4000	

IFCB-0402

Vishay Dale



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COMPLIANT

Thin Film Chip Inductors



ST/	STANDARD ELECTRICAL SPECIFICATIONS						
L 500		Q	TYPIC	AL	SRF	DCR	RATED DC
MHz (nH)	L TOL.	100 MHz	800 MHz	1700 MHz	TYP. (MHz)	MÂX. (Ω)	CURRENT (mA)
1.0	0.3 nH	7	21	33	12 000	0.15	700
1.2	0.3 nH	7	21	33	12 000	0.15	700
1.5	0.3 nH	7	21	33	10 000	0.25	700
1.8	0.3 nH	7	21	33	10 000	0.25	560
2.2	0.3 nH	7	21	33	8000	0.35	440
2.7	0.3 nH	7	21	33	8000	0.35	440
3.3	0.3 nH	7	21	28	6000	0.45	380
3.9	0.3 nH	7	21	28	6000	0.55	340
4.7	0.3 nH	7	21	28	6000	0.65	320
5.6	0.3 nH	7	21	28	6000	0.85	280
6.8	0.3 nH	7	21	28	6000	1.05	260
8.2	0.3 nH	7	21	28	5500	1.25	220
10	2 %, 5 %	7	21	26	4500	1.35	200
12	2 %, 5 %	5	21	26	3700	1.55	180
15	2 %, 5 %	5	21	26	3300	1.75	130
18	2 %, 5 %	5	21	21	3100	2.15	100
22	2 %, 5 %	5	21	19	2800	2.65	90

Note

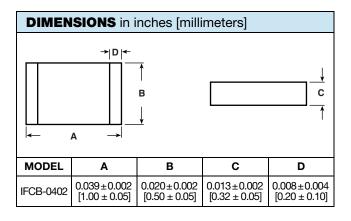
• Test equipment: HP-4287 and Agilent 16196B

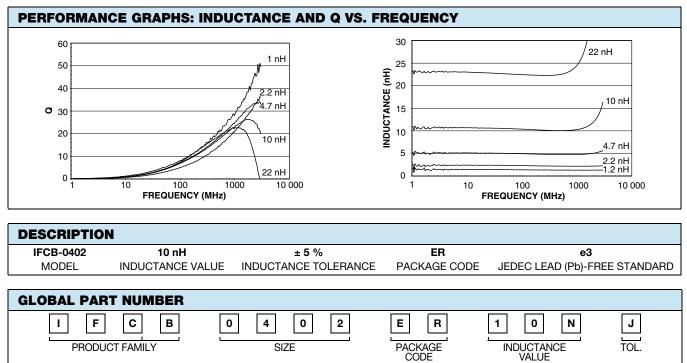
FEATURES

- Tight tolerance
- Self-resonant frequency controlled within 10 %
- Stable inductance over high frequencies
- Compatible with reflow or flow soldering
- Temperature range: 40 °C to + 125 °C (no load) - 40 °C to + 85 °C (full rated current)
- Compliant to RoHS directive 2002/95/EC

APPLICATIONS

- Cellular telephone, pagers and GPS products
- Wireless LAN and other communication appliances
- VCO, TCXO circuit and RF transceiver module









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