

ISC1210SY68NK Datasheet





DiGi Electronics Part Number	ISC1210SY68NK-DG
Manufacturer	Vishay Dale
Manufacturer Product Number	ISC1210SY68NK
Description	FIXED IND 68NH 475MA 350MOHM SMD
Detailed Description	68 nH Shielded Wirewound Inductor 475 mA 350mO hm Max 1210 (3225 Metric)

https://www.DiGi-Electronics.com



Tel: +00 852-30501935

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
ISC1210SY68NK	Vishay Dale
Series:	Product Status:
ISC-1210	Active
Туре:	Material - Core:
Wirewound	Non-Magnetic
Inductance:	Tolerance:
68 nH	±10%
Current Rating (Amps):	Current - Saturation (Isat):
475 mA	
Shielding:	DC Resistance (DCR):
Shielded	350mOhm Max
Q @ Freq:	Frequency - Self Resonant:
40 @ 50MHz	1GHz
Ratings:	Operating Temperature:
	-55°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
50 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

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

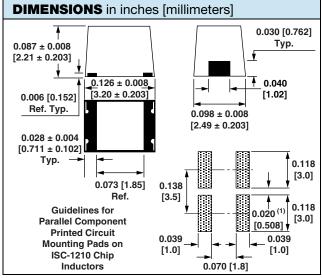
Special tolerances available upon request

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

PART MARKING 100.0 ± 10 % 0.796 30 6.0 12.0 80 Vishay Dale Inductance code Rated DC current based on the maximum temperature rise, not to exceed 40 °C at +85 °C ambient Date code DESCRIPTION ISC-1210 10 µH ± 10 % ER e3 PACKAGE CODE MODEL INDUCTANCE VALUE INDUCTANCE TOLERANCE JEDEC[®] LEAD (Pb)-FREE STANDARD **GLOBAL PART NUMBER** L s С 1 2 1 0 Е R 1 0 0 Κ INDUCTANCE PRODUCT SIZE PACKAGE TOL FAMILY CODE VALUE Document Number: 34060 1

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For technical questions, contact: magnetics@vishay.com



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