



Surface Mount Wirewound Shielded Inductor



FEATURES

- Excellent solderability and resistance to soldering heat
- Suitable for reflow soldering
- High reliability and easy surface mount assembly
- Wide range of inductance values available
- Tape and reel packaging for automatic handling, 750/reel, EIA 481
- 100 % lead (Pb)-free and RoHS compliant

RoHS
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS					
IND. (μ H) at 100 kHz	TOL.	Q MIN. at 1 MHz	SELF- RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	*RATED DC CURRENT (mA)
1.0	$\pm 20\%$	35	344	0.05	1000
1.5	$\pm 20\%$	35	260	0.06	800
1.8	$\pm 20\%$	35	225	0.09	680
2.7	$\pm 20\%$	38	185	0.14	650
3.9	$\pm 20\%$	38	175	0.26	650
4.7	$\pm 20\%$	38	160	0.35	500
5.6	$\pm 20\%$	38	150	0.40	450
6.8	$\pm 20\%$	38	120	0.60	400
10	$\pm 20\%$	38	100	0.95	250
15	$\pm 20\%$	38	35	1.15	220
22	$\pm 20\%$	40	26	1.40	180
33	$\pm 20\%$	45	20	1.60	150
39	$\pm 20\%$	45	14	1.85	130
47	$\pm 20\%$	45	14	2.50	110
68	$\pm 20\%$	45	12	3.80	100
82	$\pm 20\%$	45	9.0	4.20	100
100	$\pm 20\%$	45	7.0	5.80	80
120	$\pm 20\%$	45	6.0	6.20	60
150	$\pm 20\%$	40	5.6	7.50	50
220	$\pm 20\%$	40	4.0	10.0	50
330	$\pm 20\%$	40	3.8	11.5	50
470	$\pm 20\%$	35	2.0	16.5	50
560	$\pm 20\%$	35	2.0	18.0	30
680	$\pm 20\%$	30	1.8	24.0	30
820	$\pm 20\%$	30	1.5	26.0	30
1000	$\pm 20\%$	30	1.3	30.0	30

*For 15 °C rise

RECOMMENDED PATTERN		
A	B	C
0.128 [3.25]	0.049 [1.25]	0.098 [2.50]

ELECTRICAL SPECIFICATIONS

Inductance Range: 1 μ H to 1000 μ H

Operating Temperature: - 40 °C to 85 °C

Storage Temperature: - 40 °C to 125 °C

Material: Ferrite with magnetic shield

TEST EQUIPMENT

- Inductance and Q is measured in HP-4286A RF LCR meter with HP-16193 fixture
- SRF is measured in HP-8753E RF network analyzer
- DCR is measured in HP-4338B millohmmeter

DIMENSIONS in inches [millimeters]

LENGTH (L)	WIDTH (W)	HEIGHT (H)	TERMINAL (S)
0.142 \pm 0.008 [3.60 \pm 0.2]	0.142 \pm 0.008 [3.60 \pm 0.2]	0.098 \pm 0.008 [2.50 \pm 0.2]	0.020 \pm 0.004 [0.50 \pm 0.1]
A	B	C	
0.080 \pm 0.004 [2.00 \pm 0.1]	0.063 \pm 0.008 [1.60 \pm 0.2]	0.098 \pm 0.004 [2.50 \pm 0.1]	

DESCRIPTION

ISC-1008 MODEL	10 μ H INDUCTANCE VALUE	$\pm 20\%$ INDUCTANCE TOLERANCE	ER PACKAGE CODE	e3 JEDEC LEAD (Pb)-FREE STANDARD
GLOBAL PART NUMBER				
I S C PRODUCT FAMILY	1 0 0 8 SIZE	E R PACKAGE CODE	1 0 0 INDUCTANCE VALUE	M TOL.

ISC-1008

Vishay Dale

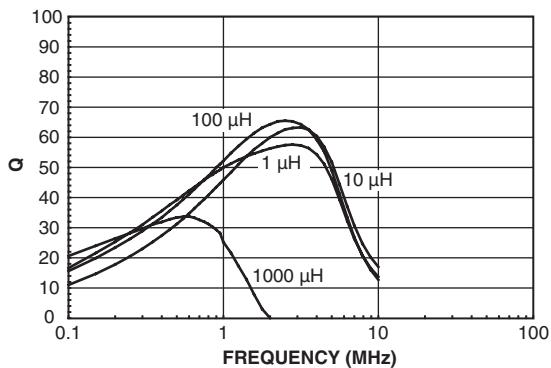
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PERFORMANCE GRAPHS

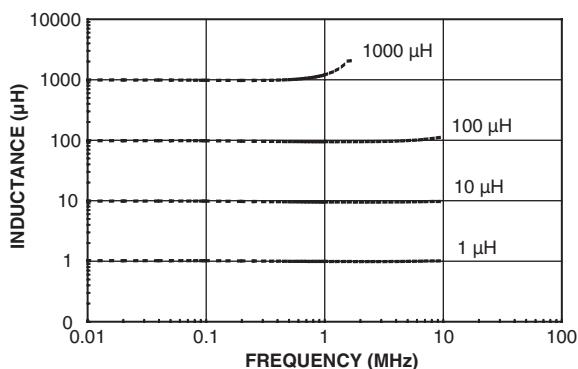
ISC-1008

Q vs FREQUENCY



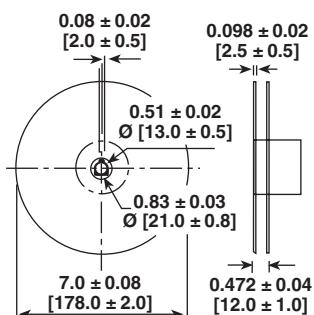
ISC-1008

INDUCTANCE vs FREQUENCY

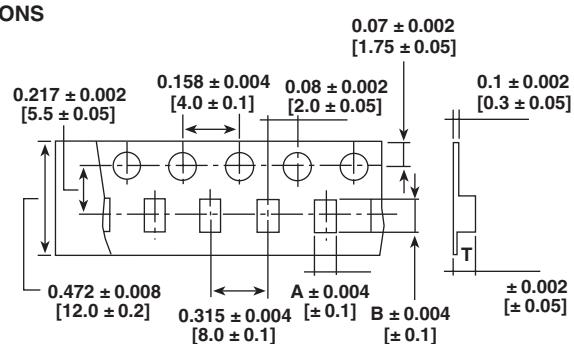


TAPE AND REEL SPECIFICATIONS in inches [millimeters]

REEL DIMENSIONS



TAPE DIMENSIONS



MODEL	UNITS PER REEL	MODEL	A	B	T
ISC-1008	750	ISC-1008	0.150 [3.8]	0.157 [4.0]	0.098 [2.5]



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