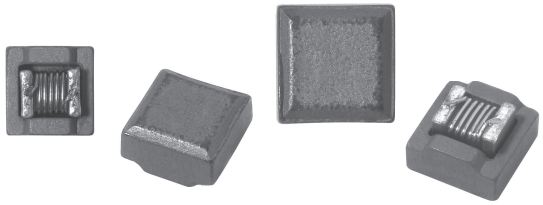
ISC-1008

Vishay Dale

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.

ELECTRICAL SPECIFICATIONS

Inductance Range: 1μH to 1000μH.
Operating Temperature: - 40°C to 85°C.
Storage Temperature: - 40°C to 125°C.
Material: Ferrite with magnetic shield.

TEST EQUIPMENT

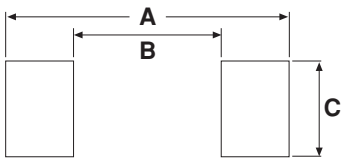
- Inductance and Q is measured in HP-4286A RF LCR meter with HP-16193 fixture.
- SRF is measured in HP-8753E RF network analyzer.
- DCR is measured in HP-4338B millohmeter.

STANDARD ELECTRICAL SPECIFICATIONS

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

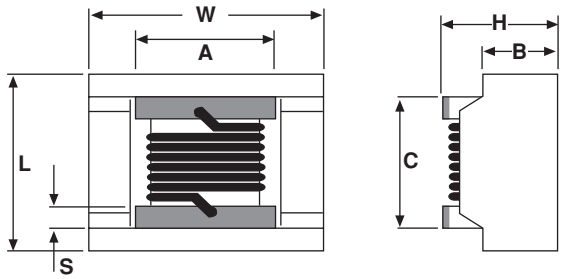
*For 15°C rise

RECOMMENDED PATTERN



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

DIMENSIONS in inches [millimeters]



LENGTH (L)	WIDTH (W)	HEIGHT (H)	TERMINAL (S)
0.142 ± 0.008 [3.60 ± 0.2]	0.142 ± 0.008 [3.60 ± 0.2]	0.098 ± 0.008 [2.50 ± 0.2]	0.020 ± 0.004 [0.50 ± 0.1]

A	B	C
0.080 ± 0.004 [2.00 ± 0.1]	0.063 ± 0.008 [1.60 ± 0.2]	0.098 ± 0.004 [2.50 ± 0.1]

DESCRIPTION

ISC-1008	10μH	± 20%	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC STANDARD

GLOBAL PART NUMBER

I	S	C	1	0	0	8	E	R	1	0	0	M
PRODUCT FAMILY			SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.

See the end of this data book for conversion tables

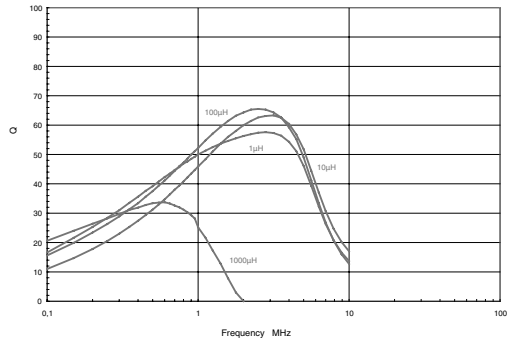
For technical questions, contact Magnetics@vishay.com

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PERFORMANCE GRAPHS

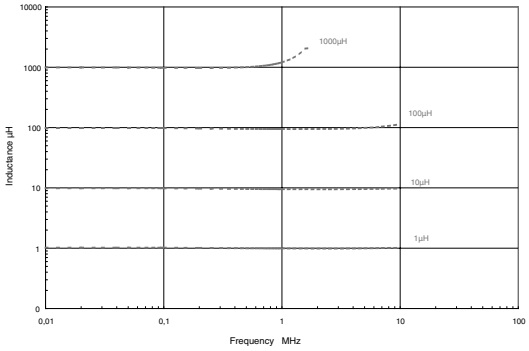
ISC-1008

Q vs Frequency



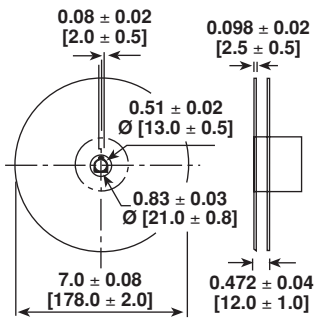
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Inductance vs Frequency

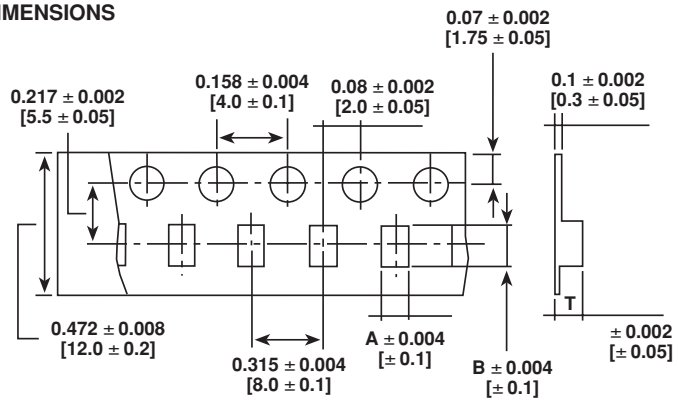


TAPE AND REEL SPECIFICATIONS in inches [millimeters]

REEL DIMENSIONS



TAPE DIMENSIONS



MODEL	UNITS PER REEL
ISC-1008	750

MODEL	A	B	T
ISC-1008	0.150 [3.8]	0.157 [4.0]	0.098 [2.5]