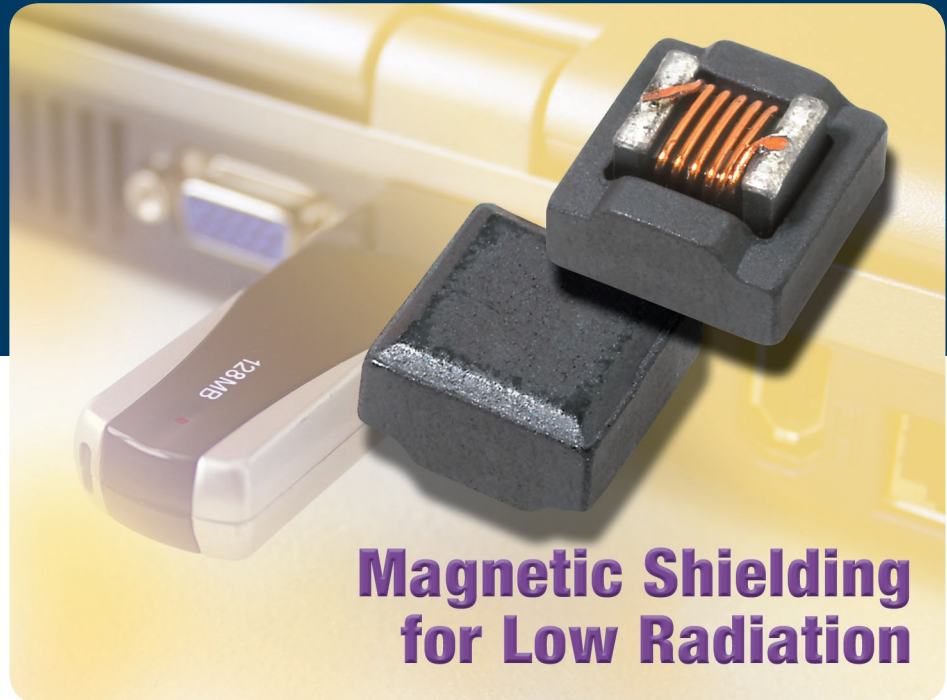




# INDUCTORS

ISC-1008



## Magnetic Shielding for Low Radiation

### Wirewound, Shielded Inductor

#### KEY BENEFITS

- Magnetic shielding for low radiation
- Small size
- Operating temperature range: - 40 °C to + 85 °C
- Tape and reel packaging: 750/reel
- Lead (Pb)-free and RoHS-compliant

#### APPLICATIONS

- Medium- to lower-frequency resonant circuits for higher-current applications
- PC cards
- PDAs
- Laptop computers
- Network cards
- Industrial electronics

Datasheet is available on our web site at [www.vishay.com](http://www.vishay.com)  
for ISC-1008 - <http://www.vishay.com/doc?34173>

## 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.



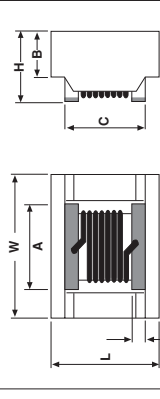
### ELECTRICAL SPECIFICATIONS

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-18193 fixture.
- SRF is measured in HP-8753E RF network analyzer.
- DCR is measured in HP-4338B milliohmmeter.

### DIMENSIONS in inches [millimeters]

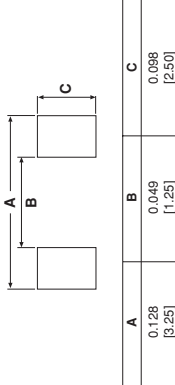


LENGTH (L)	WIDTH (W)	HEIGHT (H)	TERMINAL (S)
0.142 ± 0.008 [3.60 ± 0.2]	0.142 ± 0.008 [3.60 ± 0.2]	0.088 ± 0.008 [2.50 ± 0.2]	0.020 ± 0.004 [0.50 ± 0.1]
A		B	C
0.080 ± 0.004 [2.00 ± 0.1]		0.063 ± 0.008 [1.60 ± 0.2]	0.098 ± 0.004 [2.50 ± 0.1]

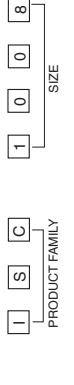
### DESCRIPTION

ISC-1008 10µH ±20% ER ø3  
 MODEL INDUCTANCE INDUCTANCE PACKAGE JEDEC  
 VALUE TOLERANCE CODE STANDARD

### RECOMMENDED PATTERN



### GLOBAL PART NUMBER



IND. @ 100kHz	IND. TOL.	Q MIN. @ 1MHz	SELF-RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
1.0	±20%	35	344	0.05	1000
1.8	±20%	35	240	0.05	600
2.7	±20%	35	220	0.09	680
3.9	±20%	38	185	0.14	650
4.7	±20%	38	175	0.26	650
5.6	±20%	38	160	0.35	500
6.8	±20%	38	150	0.40	450
10	±20%	38	120	0.60	400
15	±20%	38	100	0.95	250
22	±20%	40	26	1.15	220
33	±20%	45	20	1.40	180
47	±20%	45	14	1.60	150
68	±20%	45	14	1.85	130
100	±20%	45	14	2.50	110
150	±20%	45	10	3.90	100
220	±20%	45	7.0	5.60	80
330	±20%	40	5.6	6.20	60
470	±20%	40	5.6	7.50	50
680	±20%	35	4.0	10.0	50
820	±20%	35	3.8	11.5	50
1000	±20%	30	2.0	16.5	30
1000	±20%	30	2.0	18.0	30
1000	±20%	30	1.5	24.0	30
1000	±20%	30	1.5	26.0	30
1000	±20%	30	1.3	30.0	30

\*For 15°C rise

