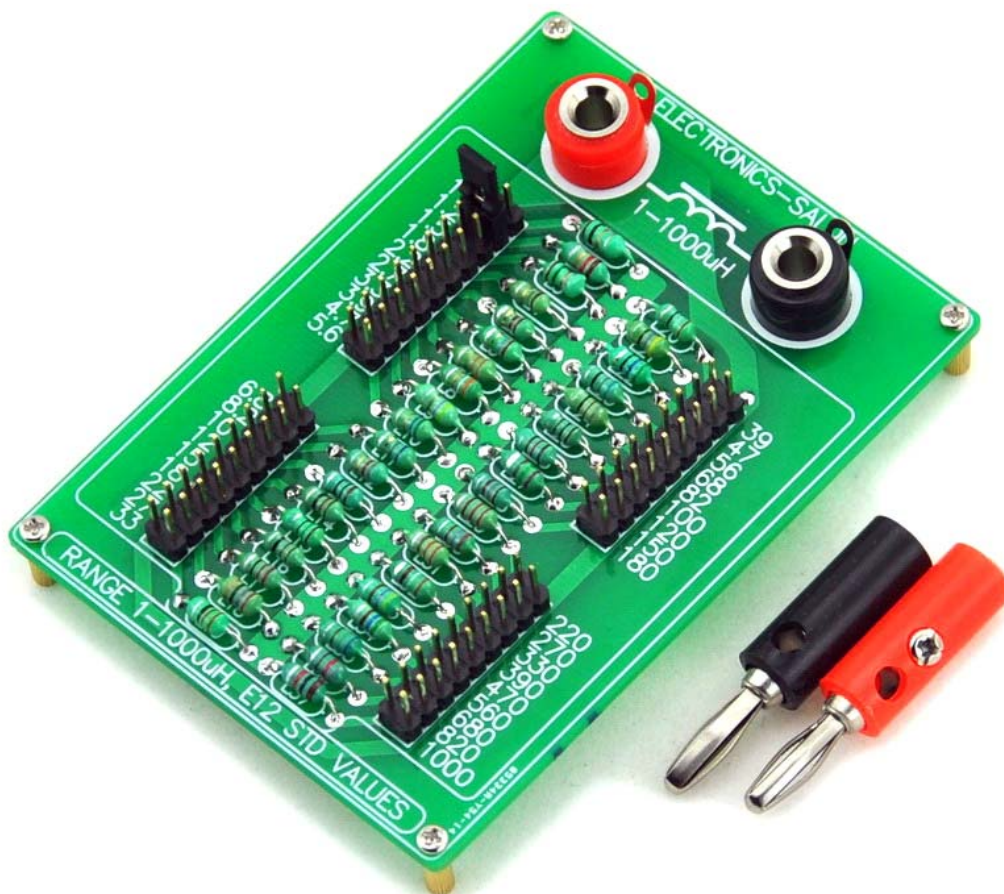


# Electronics-Salon

## SPECIFICATION

Model: E-102

**1uH – 1000uH E12 Value Programmable Inductor Board**



## Description:

This is "inductance substitution box" good low-cost alternative solution, can flexible and quick setting inductance range from 1uH to 1000uH, E12 value standard. for educational experiments, electronic engineering design or test trimming are excellent applications.

## Features:

Each value corresponds to a separate inductor, no series or in parallel.

Tolerance +/-10% inductors, 1uH to 1000uH total 37 values.

4mm banana sockets with plugs, easy to connect wires.

High quality FR4 glass fiber PCB.

## Inductance setting values, unit uH:

1	1.2	1.5	1.8	2.2	2.7	3.3	3.9	4.7	5.6	6.8	8.2	
10	12	15	18	22	27	33	39	47	56	68	82	
100	120	150	180	220	270	330	390	470	560	680	820	1000

## Other data:

Inductance	Rated Current (mA)	Q	DC impedance(OHM)
1 to 8.2uH	165mA	40~50	< 2.2
10 to 82uH	95mA	50	< 6.3
100 to 1000uH	40mA	50	< 33

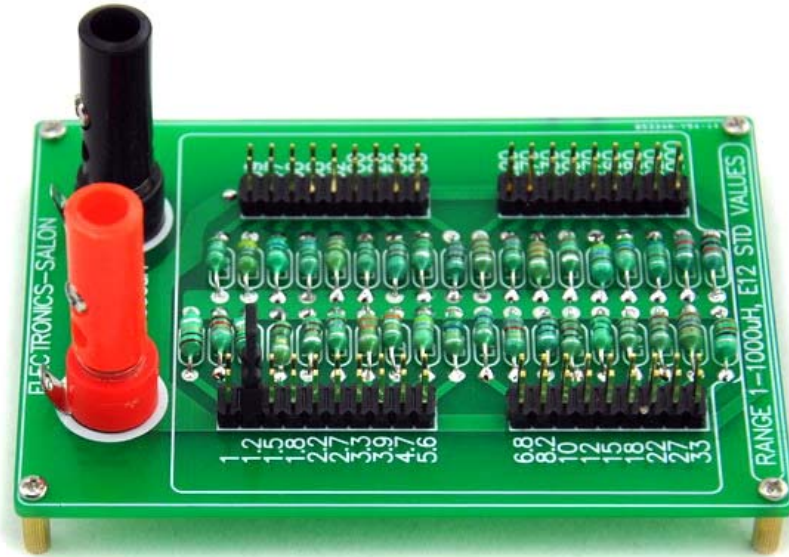
About these detailed data, please read last page.

## Note:

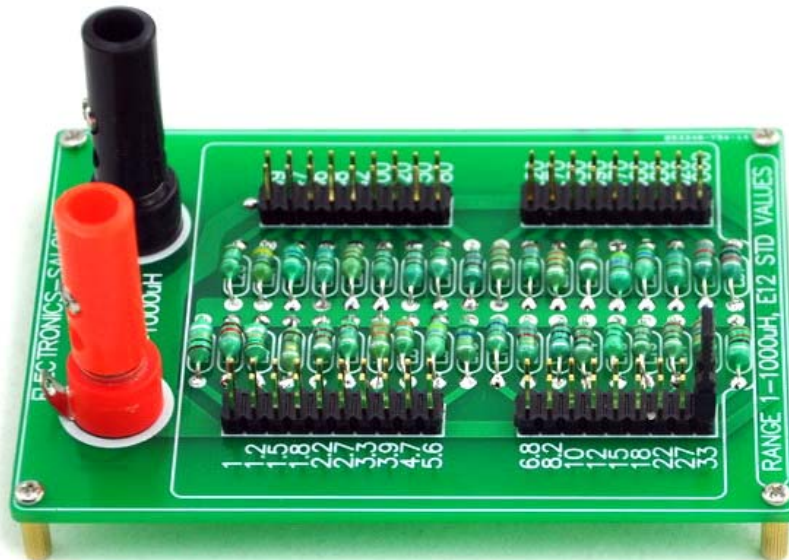
If you use a multimeter to verify that the circuit board may will inaccurate, the problem comes from the multimeter. you can use a professional LCR instrument test instead of a multimeter.

## Example, jumper settings:

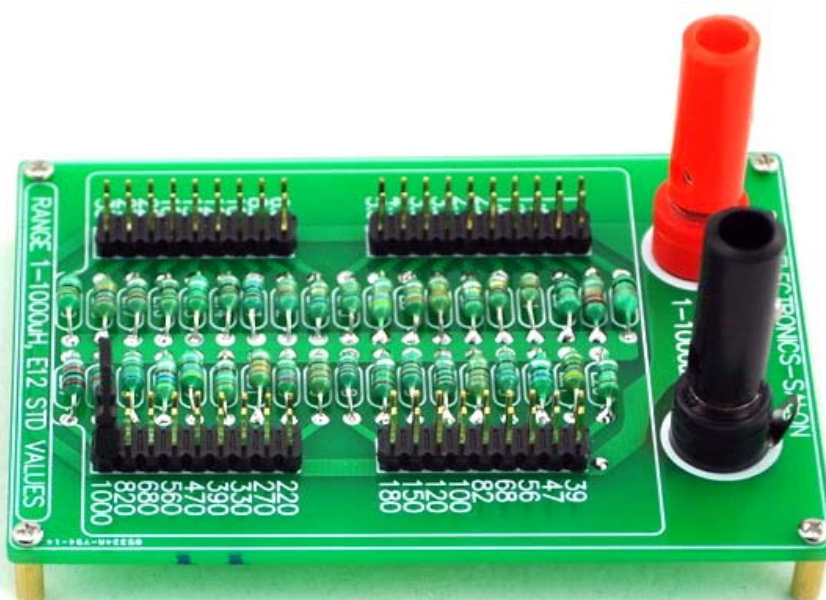
1, 1.2uH.



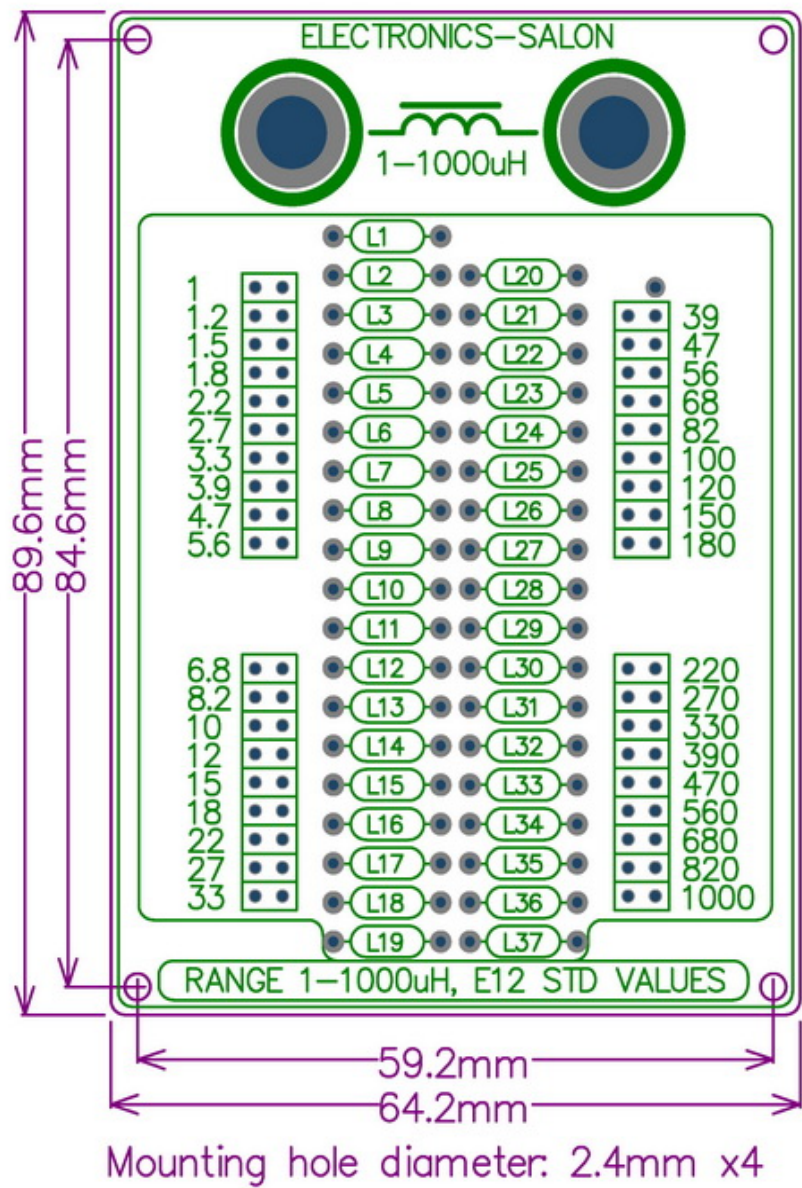
2, 33uH.



3, 1000uH.



PCB Size:





**SFPECIFICATION TABLE:**

Part Number 品名	Inductance ( $\mu$ H) 电感值	Q (min) 品质系数	SRF(min) (MHz) 自谐频率	DCR(max) ( $\Omega$ ) 直流阻抗	IDC(max) (mA) 额定电流	Test Freq (MHz) 测试频率
EC0307-1R0M	1.00	40	150	0.80	270	25.2
EC0307-1R2M	1.20	50	144	0.90	260	7.96
EC0307-1R5M	1.50	50	131	1.00	250	7.96
EC0307-1R8M	1.80	50	121	1.10	240	7.96
EC0307-2R2M	2.20	50	110	1.20	230	7.96
EC0307-2R7M	2.70	50	100	1.30	220	7.96
EC0307-3R3K	3.30	50	94	1.40	210	7.96
EC0307-3R9K	3.90	50	65	1.60	200	7.96
EC0307-4R7K	4.70	50	56	1.70	190	7.96
EC0307-5R6K	5.60	50	48	1.90	180	7.96
EC0307-6R8K	6.80	50	37	2.00	175	7.96
EC0307-8R2K	8.20	50	25	2.20	165	7.96
EC0307-100K	10.0	50	21	2.50	160	7.96
EC0307-120K	12.0	50	19	2.50	150	2.52
EC0307-150K	15.0	50	17	2.80	145	2.52
EC0307-180K	18.0	50	13	3.10	140	2.52
EC0307-220K	22.0	50	9.6	3.40	130	2.52
EC0307-270K	27.0	50	7.2	3.80	125	2.52
EC0307-330K	33.0	50	6.3	4.10	120	2.52
EC0307-390K	39.0	50	6.3	4.50	115	2.52
EC0307-470K	47.0	50	6.3	4.90	110	2.52
EC0307-560K	56.0	50	6.2	5.30	105	2.52
EC0307-680K	68.0	50	5.7	5.80	100	2.52
EC0307-820K	82.0	50	5.3	6.3	95	2.52
EC0307-101K	100	50	4.8	7.0	90	2.52
EC0307-121K	120	50	3.8	13.0	90	0.796
EC0307-151K	150	50	3.5	15.0	85	0.796
EC0307-181K	180	50	3.3	16.0	80	0.796
EC0307-221K	220	50	3.0	17.0	75	0.796
EC0307-271K	270	50	2.8	19.0	65	0.796
EC0307-331K	330	50	2.6	20.0	60	0.796
EC0307-391K	390	50	2.4	22.0	55	0.796
EC0307-471K	470	50	2.25	24.0	55	0.796
EC0307-561K	560	50	2.10	26.0	50	0.796
EC0307-681K	680	50	1.95	28.0	45	0.796
EC0307-821K	820	50	1.85	30.0	40	0.796
EC0307-102K	1000	50	1.40	33.0	40	0.796