

**Shielded SMD power Inductor**

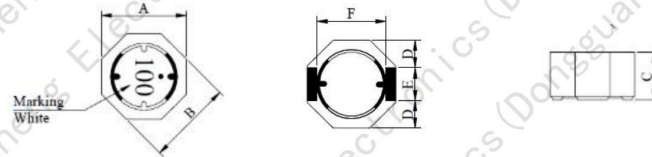
**FC-SLU1038 Series FC-SLU1038 220YL**

**Features**

- Excellent solderability and high heat resistance.
- Low cost and packed in embossed carrier tape.
- Magnetic shielded surface mount inductor with high current rating
- Frequency Range: 100kHz, 0.1 Vrms
- Ambient temperature -40°C to +105°C
- Storage temperature Component: -40°C to +125°C



**1. Dimensions:mm**

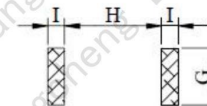


Series	A ± (0.3)	B (±0.30)	C (high)	D (typ)	E (typ)	F (typ)	G ( REF)	H ( REF)	I ( REF)
FC-SLU1028-L	10.0	10.0	2.8±0.3	3.4	3.2	4.7	4.0	7.2	1.8
FC-SLU1030-L	10.0	10.0	2.8±0.3	3.0	4.0	8.2	4.2	8.2	1.5
FC-SLU1038-L	10.0	10.0	3.8±0.3	3.4	3.2	7.4	4.0	7.2	1.8
FC-SLU1040-L	10.0	10.0	3.8±0.3	3.0	4.0	8.2	4.2	8.2	1.4
FC-SLU1048-L	10.0	10.0	4.8±0.3	3.4	3.2	7.4	4.0	7.2	1.80
FC-SLU1050-L	10.0	10.0	4.8±0.3	3.0	4.0	8.2	4.2	8.2	1.4
FC-SLU1065-L	10.0	10.0	6.5±0.3	3.0	4.0	8.2	4.2	8.2	1.4

**2.Schematic:**



**3.LAYOUT RECOMMENDATION:mm**



( PCB Pattern suggestion )

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6. ELECTRIC CHARACTERICS

Part Number	Inductance (uH)	SRF (MHZ)	RDC (mΩ)		Current Rating (A)	
			typ	max	Irms	Isat
FC-SLU1038-1R5YL	1.5±30%	65	5.2	7.5	7.20	7.00
FC-SLU1038-2R2YL	2.2±30%	55	7.7	10.5	6.80	6.50
FC-SLU1038-3R5YL	3.5±30%	35	11.5	15.0	5.50	5.50
FC-SLU1038-5R0YL	5.0±30%	30	14.5	22.0	4.60	4.80
FC-SLU1038-6R2YL	6.2±30%	25	16.5	24.0	4.00	4.20
FC-SLU1038-100YL	10.0±30%	20	20.5	35.0	3.80	3.60
FC-SLU1038-150YL	15.0±30%	16	37.0	50.0	2.80	2.70
FC-SLU1038-220YL	22.0±30%	12	55.8	75.0	2.80	2.70
FC-SLU1038-330YL	33.0±30%	10	86.0	112.0	1.80	1.80
FC-SLU1038-470YL	47.0±30%	8	121.0	160.0	1.65	1.60
FC-SLU1038-680YL	68.0±30%	7	166.0	216.0	1.10	1.30
FC-SLU1038-101YL	100.0±30%	6	220.0	300.0	1.30	1.10
FC-SLU1038-151YL	150.0±30%	5	358.0	476.0	0.90	0.80
FC-SLU1038-221YL	220.0±30%	4	565.0	470.0	0.65	0.65
FC-SLU1038-331YL	330.0±30%	3	773.0	1000.0	0.55	0.52

Electrical Specifications @ 25°C — Operating Temperature -40°C to +125°C.

Inductance Test Freq. : 100KHz /0.1V

Irms base on Temp. rise 40°C max.

Isat base on Δ L / LOA=35% typ.

