

# Power Inductors Unshielded - SMT Drum 8 x 4mm

## (SDIP0804LP Series)



POWER INDUCTORS



**MAX. DIM :**  
**L = 13.46 mm**  
**W = 9.52 mm**  
**H = 5.2 mm**

- Used in high frequency DC/DC converters.
- Low DC resistance.
- Flat base design allows low profile.
- Current rating up to 12 Amps.
- Open construction provides stable inductance for increasing current.
- Inductance range from 1.50  $\mu\text{H}$  to 1000  $\mu\text{H}$ .
- Energy storage limit of 70 $\mu\text{J}$ .
- Tape & Reel : 600 pcs/Reel, 5 Reels/Box.

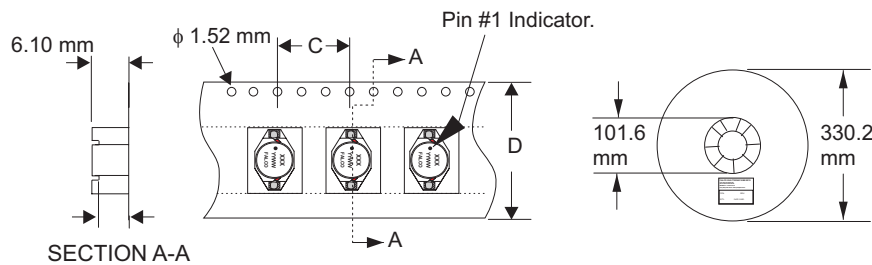
### MECHANICAL SPECIFICATIONS

Top View	Side View	PCB Layout (Top)	Schematic
<p>Marking Inductance Value / Add "L" letter for RoHS parts</p>		<p>*FINAL DESIGN FOR PCB LAYOUT IS LEFT TO THE USER</p>	

**INCHES [mm]**  
**All dimensions are in inches**

### Packaging Information

### Tape & Reel



ITEM	DESCRIPTION	QTY.
A	QTY. PER REEL	600
B	QTY. PER BOX	3000
C	PITCH	16 mm
D	TAPE WIDTH	24 mm

See tape and reel information 63-001

### ELECTRICAL SPECIFICATIONS

FALCO PART NUMBER	RoHS PART NUMBER	OCL( $\mu\text{H}$ ) <sup>1</sup> $\pm 20\%$	DCR ( $\Omega$ max)	I rating <sup>2</sup> (Amp)	I sat <sup>3</sup> (Amp)	SRF (MHz) typ.
D08039	D08L39	1.5	0.0055	12.00	10.10	90.0
D08038	D08062	2.2	0.0108	7.20	9.00	80.0
D08037	D08L37	3.3	0.0150	5.90	6.80	65.0
D08021	D08L21	4.7	0.0170	4.70	5.40	45.0
D08036	D08L36	6.8	0.0286	4.40	4.70	38.0
D08035	D08L35	10	0.0408	4.30	4.10	30.0
	D08058	15	0.0480	3.60	3.50	27.0
D08052	D08L52	22	0.0720	2.50	2.60	19.0
D08044	D08L44	33	0.1180	2.10	2.40	15.0
	D08065	47	0.1400	1.80	1.60	12.0
	D08053	68	0.2120	1.50	1.30	10.0
	D08063	100	0.2900	1.30	1.20	9.0

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**ELECTRICAL SPECIFICATIONS**

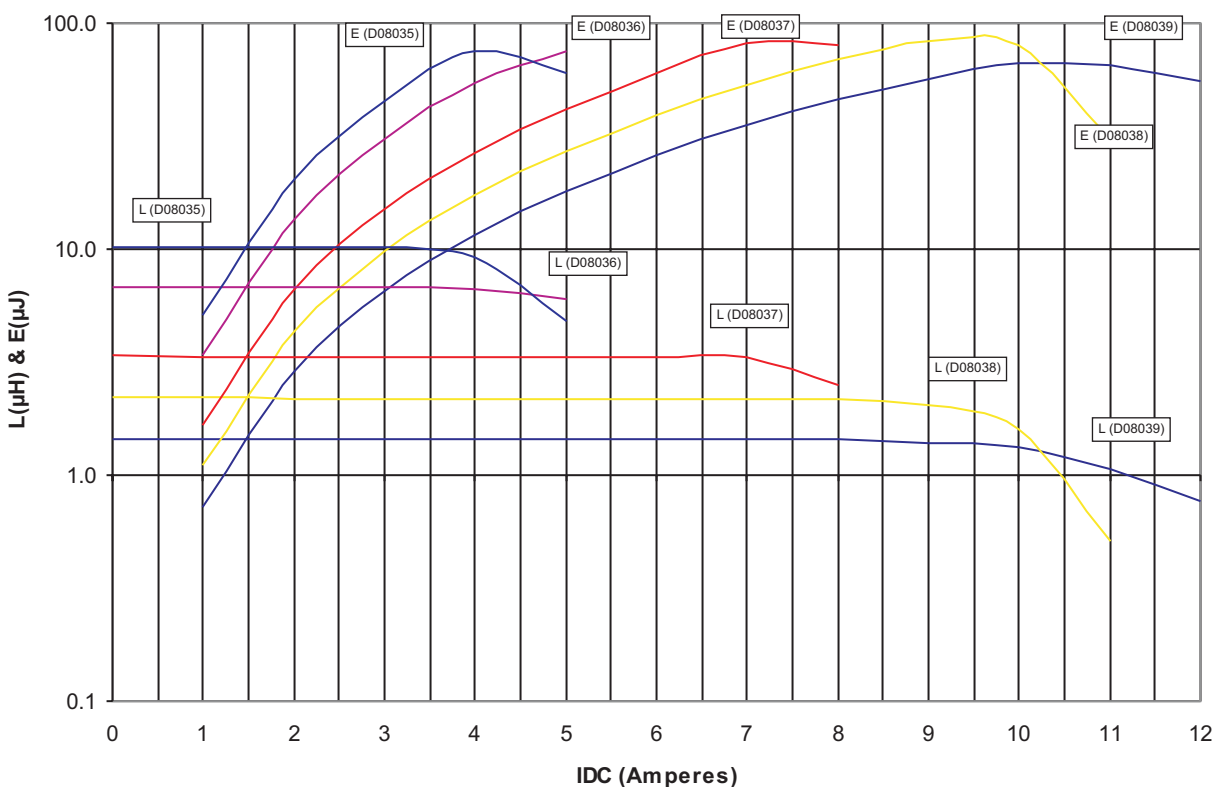
FALCO PART NUMBER	RoHS PART NUMBER	OCL( $\mu$ H) <sup>1</sup> $\pm 20\%$	DCR ( $\Omega$ max)	I rating <sup>2</sup> (Amp)	I sat <sup>3</sup> (Amp)	SRF (MHz) typ.
D08059	D08L59	150	0.4200	1.20	1.10	6.0
D08042	D08L42	220	0.6810	1.05	0.93	5.0
D08056	D08L56	1000	3.0000	0.30	0.45	2.0



RoHS COMPLIANT PRODUCT

1. Inductance tested at 100 KHz 0.25 V.
2. Temperature rise is 40°C Typ.
3. Inductance drop 10% Typ. at Isat.
4. Operating Temp. range -40° to +85°C.
5. OCL and DCR tested at Ta= 25°C.

**Inductance & Energy vs Current**



## Impedance vs Frequency

