

Power Inductors Shielded-SMT U-I 13 x 13 mm

POWER INDUCTORS

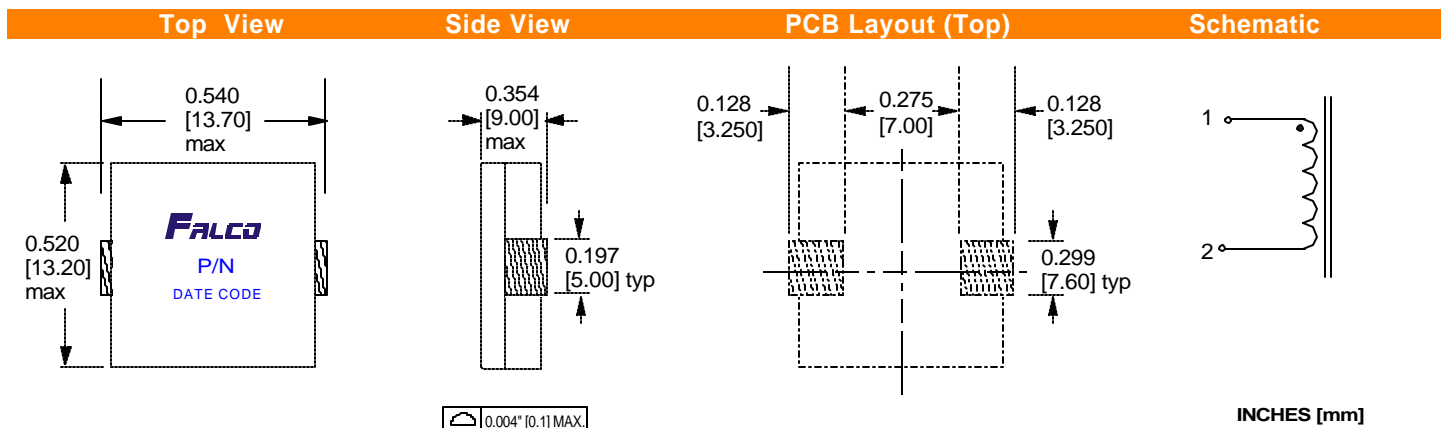
(UC 13x8 Series)



MAX. DIM :
L = 13.70 mm
W = 13.20 mm
H = 9.00 mm

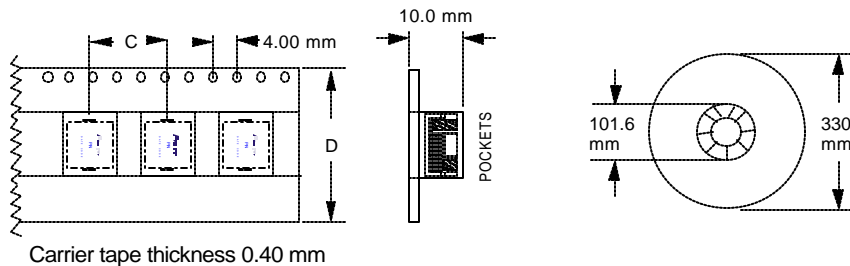
- Used in high frequency DC/DC converters and VRMs.
- Magnetically shielded for low EMI radiation.
- Current rating up to 45.0 Amps.
- Cost effective solution for high power requirements.
- Inductance range from 0.21 μH to 0.42 μH .
- Energy storage limit of 470 μJ .
- Tape & Reel : 500 pcs/Reel, 3 Reels/Box.

MECHANICAL SPECIFICATIONS



Packaging Information

Tape & Reel



ITEM	DESCRIPTION	QTY.
A	QTY. PER REEL	500
B	QTY PER BOX	1500
C	PITCH	16mm
D	TAPE WIDTH	24mm

See tape and reel information 63-017

ELECTRICAL SPECIFICATIONS

FALCO PART NUMBER	RoHS PART NUMBER	Inductance (μH)	Saturation Current (A)	Rated Current (A)	DC Resistance ($\text{m}\Omega$)
		L_i (at 25°C) ¹	10% Rolloff (at 25°C) ²	$\Delta T = 40^\circ\text{C}$ ³	max. (at 25°C)
	UC1303	0.260 \pm 20%	60.0	45.0	0.50
UC1302	UC13L2	0.320 \pm 20%	45.0	41.0	0.65
	UC1301	0.420 \pm 20%	26.0	*26.0	0.50



RoHS COMPLIANT PRODUCT

1. L_i = Initial inductance tested at 100 KHz 0.25 V & 0 ADC.
2. I_{SAT} = DC current value at which L_i decreases to 80% typ.
3. The DC current value at which ΔT rises 40°C typ. over 25°C ambient, * $\Delta T = 45^\circ\text{C}$ typ.
4. Operating Temp. range -40°C to +125°C.
5. Storage Temperature Range -40°C to +125°C

Inductance and Temperature Rise vs Current

INDUCTANCE vs CURRENT

