

# Power Inductors Shielded-SMT E- I 12.5 x 12.5 mm

POWER INDUCTORS

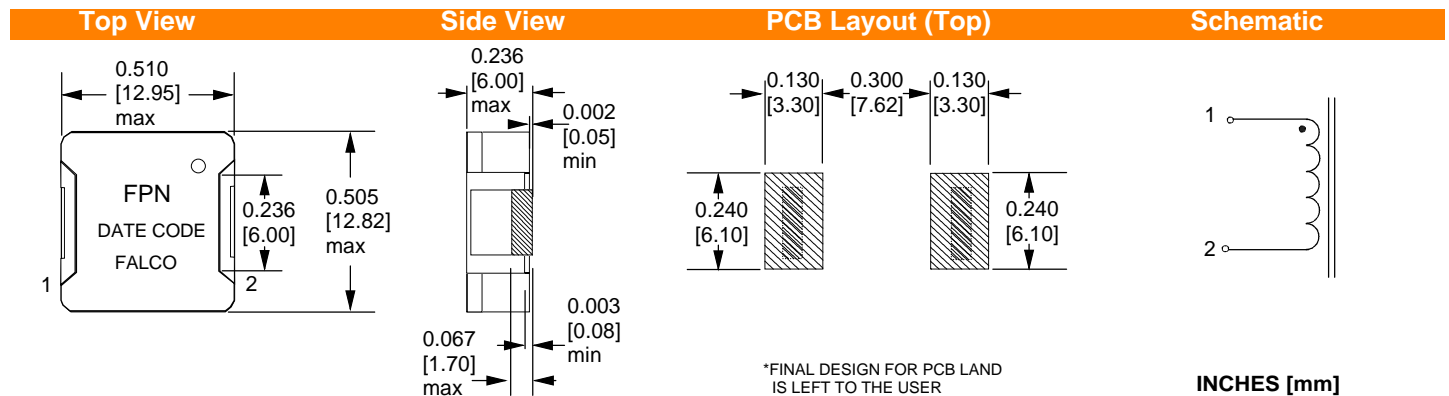
(QPIH1205  
QPIH1205MP Series)



**MAX. DIM :**  
L = 12.95 mm  
W = 12.82 mm  
H = 6.00 mm

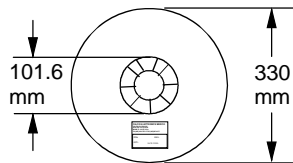
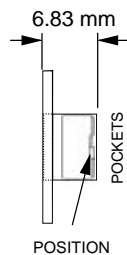
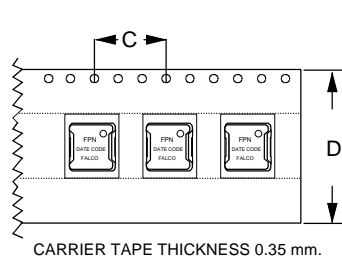
- Used in high frequency DC/DC converters.
- Magnetically shielded for low EMI radiation.
- Low profile.
- Current rating up to 30 Amps.
- Excellent inductance stability versus current
- Low power loss.
- Suitable for reflow and IR solder process.
- Inductance range from 0.300  $\mu$ H to 4.70  $\mu$ H.
- Energy storage limit of 350  $\mu$ J.
- Tape & Reel : 500 pcs/Reel, 5 Reels/Box.

## MECHANICAL SPECIFICATIONS



## Packaging Information

## Tape & Reel



ITEM	DESCRIPTION	QTY.
A	QTY. PER REEL	500
B	QTY PER BOX	2500
C	PITCH	16mm
D	TAPE WIDTH	24mm

See tape and reel information 63-008

## ELECTRICAL SPECIFICATIONS

FALCO PART NUMBER	RoHS PART NUMBER	Inductance ( $\mu$ H)		Saturation Current (A) $I_{sat}$ (at 25°C) <sup>3</sup>	Rated Current (A) $\Delta T = 40^\circ C$ <sup>4</sup>	DC Resistance (m $\Omega$ ) max. (at 25°C)
		$L_i$ (at 25°C) <sup>1</sup>	$L_{rat}$ (at 25°C) <sup>2</sup>			
<b>QPIH1205 SERIES</b>						
PI1302	PI1302	0.330 $\pm$ 25%	0.310	46.0	30.0	1.42
PI1305	PI13L5	0.550 $\pm$ 25%	0.530	40.0	25.0	1.50
PI1306		0.800 $\pm$ 25%	0.730	37.0	20.0	2.20
PI1307		1.10 $\pm$ 25%	1.05	25.0	20.0	2.20
PI1311		1.80 $\pm$ 25%	1.66	19.0	15.0	3.30
PI1301	PI13L1	2.25 $\pm$ 20%	2.05	16.0	14.0	4.20
PI1308		2.50 $\pm$ 25%	2.15	13.5	14.0	4.20
PI1304		4.70 $\pm$ 20%	4.45	12.0	10.5	8.00
<b>QPIH1205MP SERIES</b>						
PI1401	PI1402	1.80 $\pm$ 25%	1.45	18.0	15.0	3.30



RoHS COMPLIANT PRODUCT

1.  $L_i$  = Initial inductance tested at 100 KHz 0.25 V & 0 ADC.
2.  $L_{rat}$  = Inductance value at rated current.
3.  $I_{SAT}$  = DC current value at which  $L_i$  decreases to 90%.
4. The DC current value at which  $\Delta T$  of coil rises 40°C typ.
5. Operating Temp. range -15°C to +85°C.

