

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

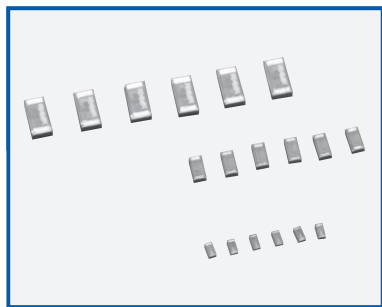


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# Precision thin film chip inductors

HPL series

## Features

- Highly precise chip inductors: inductance tolerance +/-0.1nH for 0603 size
- High Q and high current
- Small temperature coefficient of inductance: 0 to -200ppm/°C

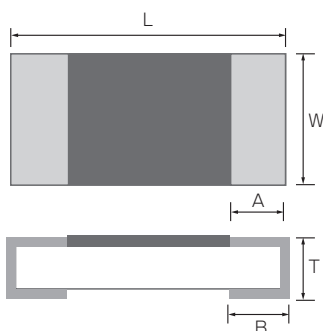
## Applications

- Automotive electronics, high frequency circuitries such as wireless communication devices and base stations

## Specifications

\* All made to order.

### Dimensions



unit : mm

Dimension (inch)	HPL0603 (0201)	HPL1005 (0402)
L	0.60±0.05	1.00±0.10
W	0.30±0.05	0.50±0.10
A	0.07±0.05	0.15±0.15
B	0.12±0.05	0.25±0.20
T	0.28±0.05	0.40±0.10

### Electrical characteristics

Series name	HPL0603		HPL1005		
Inductance range	1.0~5.6	6.2~10	1.0~9.1	10~18	
Inductance tolerance	±0.1nH(E02)	○	○	—	
	±0.2nH	○	○	—	
	±2%	—	○	○	
Inductance value offered	E-24				
Q value	at 300MHz	—	—	20~15	15~13
	at 500MHz	10	10~8	—	—
	at 800MHz	17~14	16~14	35~25	25~20
	at 1.5GHz	25~18	20~18	50~30	30~25
Self-resonance frequency (GHz)	10~6.0	3.5	7.0~4.0	3.5	
DC resistance (Ω) typ.	0.1~0.8	0.8~1.5	0.01~0.4	0.5~0.8	
Rated current (A)	0.5~0.2	0.2~0.15	1.8~0.34	0.3~0.24	
Operating temperature	-40~125°C				
Packaging	10,000pcs	○	○	○	

· Measured at 500MHz in case of HPL0603, at 300MHz in case of HPL1005.

## Part numbering system

**HPL 1005 - 1N0 (-E02)**

- Designates tighter inductance tolerance
- Inductance value (1N0=1.0nH)
- Size
- Part code

High frequency surface mount components

HPL series