



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		
А	0.07±0.05	0.15±0.15		
В	0.12±0.05	0.25±0.20		
Т	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	—	0	-	
	±0.2nH	0	—	0	—	
	±2%	—	0	—	0	
Inductance value offered		E-24				
Q value	at 300MHz	—	—	20~15	15~13	
	at 500MHz	10	10~8	—	—	
	at 800MHz	$17 \sim 14$	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	0		0		

 \cdot Mesured at 500MHz in case of HPL0603, at 300MHz in case of HPL1005.

