



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!



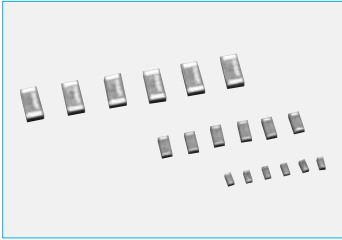
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HPL, TFL series, high-precision, thin-film chip inductors.



These 0805, 0402 and 0201 size chip inductors are adjustment free due to their tight tolerance. Additionally, this part also offers a high self-resonance frequency of 1 GHz and high Q value and a very excellent rated current.

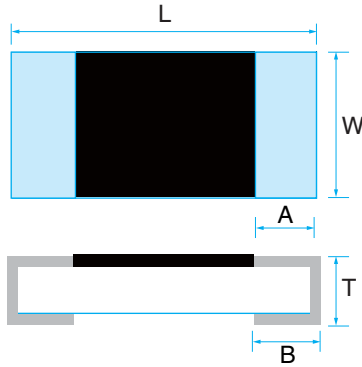
RoHS compliant

Completely lead free



SPECIFICATIONS

Mechanical



Dimension (Inch Size)	HPL0603 (0201)	HPL1005 (0402)	TFL0816 (0603)
L	0.60±0.05	1.00±0.10	1.60±0.10
W	0.30±0.05	0.50±0.10	0.80±0.10
A	0.07±0.05	0.15±0.10	0.30±0.20
B	0.12±0.05	0.25±0.10	0.30±0.20
T	0.28±0.05	0.40±0.10	0.45±0.10

(unit : mm)

Electrical

Type	HPL0603		HPL1005		TFL0816				
	E-24		E-24		E-12				
inductance value	E-24		E-24		E-12				
inductance range (nH)	1.0~5.6	6.2~27	1.0~9.1	10~39	1.0~4.7	5.6~8.2	10~27	33~68	82~100
inductance tolerance	±0.1nH, ±0.2nH	±2%	±0.1nH, ±0.2nH	±2%	±0.2nH		±2%	±2%	
Q value (at 300MHz)	10	8~10	20~15	15~13	20	15	15	*15	*10
Q value (at 800MHz) typ.	14~17	14~16	35~25	25~20	34~30		30~25	25	15
Q value (at 1.5GHz) typ.	18~25	18~20	50~30	30~25	38~35		35~30	**	
Self resonance Frequency(GHz)	10~6.0	3.5	7.0~4.0	3.5	6.0~5.0	5.0~4.0	4.0~2.0	1.5~1.0	1.0
DC resistance(Ω)	0.1~0.8	0.8~1.5	0.01~0.4	0.5~0.8	0.10~0.25	0.50	1.0~2.0	2.0~4.5	6.0~8.5
Rated Current(A)	0.5~0.2	0.2~0.15	1.8~0.34	0.3~0.24	1.0~0.6	0.40	0.3~0.2	0.2~0.14	0.12~0.1
Package	10,000pcs/reel				5,000pcs/reel				

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

* Measured at 200MHz in case of 33-100nH(TFL0816)

** No measuring in case of 33-100nH(TFL0816)



PART NUMBER

HPL 0603 - 1N0 (-E02)

