

RADIAL LEADED INDUCTORS



WAVE

FEATURES

- The LHL08~LHL16 series radial inductors are encapsulated in a resin housing which adds to the stability of the mounted part on a printed circuit board.
- The LHL08/LHL10/LHL13/LHL16 series are for high current applications.
- The LHL10/LHLP12/LHLP16 series are shielded type for high current applications.
- LHLP10 series is also available in packaging.

OPERATING TEMP.

- -25°C~105°C (Including self-generated heat)

ORDERING CODE

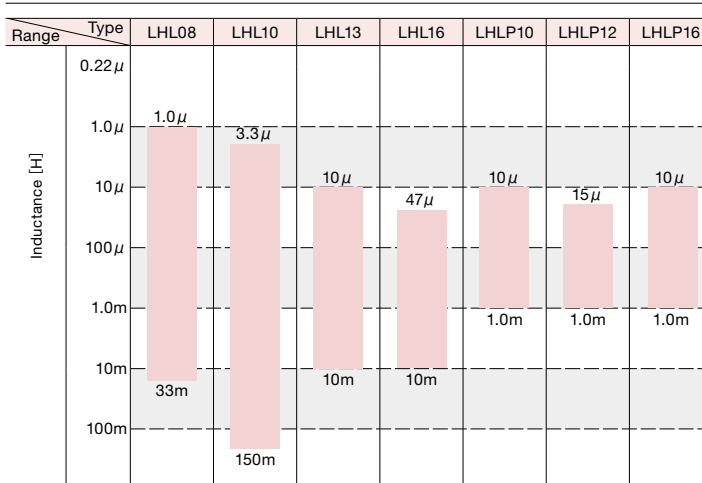
L	H	△	L	△	0	8	T	B	1	0	1	K	○	○	○
①		②		③		④		⑤		⑥		⑦			
①Type		②Configuration		③External dimensions (mm max)		④Packaging Code		⑤Nominal Inductance (μH)		⑥Inductance Tolerances (%)		⑦Internal code			
LH	Radial leaded inductor	L△	Standard type Taping available	△=Blank space		NB	Bulk (LHL)	example		J	±5	△△△ Standard product △=Blank space			
LP	Shielded type Bulk	LP	Shielded type Bulk			TB	Ammo packaging (LHL)	1R0	1.0	K	±10				
								150	15	M	±20				
								102	1000	N	±30				
								※R=Decimal point							

EXTERNAL DIMENSIONS/STANDARD QUANTITY

Type	Fig.	D	H ₂	ℓ	F	φd	Standard Quantity (pcs)		
							Box	Bulk	Taped
LHL08		9.0 max. (0.354 max.)	9.5 max. (0.374 max.)	5.0±1.0 (0.197±0.039)	5.0±1.0 (0.197±0.039)	0.6±0.05 (0.024±0.002)	—	100	1000
LHL10		11.0 max. (0.433 max.)	14.0 max. (0.551 max.)	5.0±1.0 (0.197±0.039)	5.0±1.0 (0.197±0.039)	0.6±0.05 (0.024±0.002)	—	50	500
LHL13		14.0 max. (0.551 max.)	17.0 max. (0.669 max.)	5.0±1.0 (0.197±0.039)	7.5±1.0 (0.295±0.039)	0.8±0.05 (0.031±0.002)	—	25	500
LHL16		17.0 max. (0.669 max.)	21.0 max. (0.827 max.)	5.0±1.0 (0.197±0.039)	7.5±1.0 (0.295±0.039)	0.8±0.05 (0.031±0.002)	500	—	250
LHLP10		11.0 max. (0.433 max.)	11.0 max. (0.433 max.)	5.0±1.0 (0.197±0.039)	5.0±1.0 (0.197±0.039)	0.6±0.05 (0.024±0.004)	500	—	200
LHLP12		13.0 max. (0.512 max.)	16.0 max. (0.624 max.)	5.0±1.0 (0.197±0.039)	5.0±1.0 (0.197±0.039)	0.6±0.05 (0.024±0.004)	300	—	—
LHLP16		17.0 max. (0.669 max.)	19.0 max. (0.741 max.)	5.0±1.0 (0.197±0.039)	7.5±1.0 (0.295±0.039)	0.8±0.05 (0.031±0.004)	200	—	—

Unit : mm (inch)

AVAILABLE INDUCTANCE RANGE



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LHL08

Ordering code		EHS (Environmental Hazardous Substances)	Inductance [μ H]	Inductance Tolerance	Q (min.)	Self-resonant frequency [MHz] (min.)	DC Resistance [Ω] (max.)	Rated current [A] (max.)	Measuring frequency [MHz]
LHL08□1R0N		RoHS	1.0	$\pm 30\%$	40	76	0.013	4.7	7.96
LHL08□1R5M		RoHS	1.5			65	0.014	4.4	
LHL08□2R2M		RoHS	2.2			56	0.017	4.1	
LHL08□2R7M		RoHS	2.7			48	0.019	3.5	
LHL08□3R3M		RoHS	3.3			41	0.021	3.2	
LHL08□3R9M		RoHS	3.9			33	0.024	3.1	
LHL08□4R7M		RoHS	4.7			30	0.025	3.0	
LHL08□5R6M		RoHS	5.6			23	0.028	2.9	
LHL08□6R8M		RoHS	6.8			21	0.030	2.8	
LHL08□8R2M		RoHS	8.2			19	0.034	2.5	
LHL08□100K		RoHS	10	$\pm 10\%$	65	17	0.041	2.4	2.52
LHL08□120K		RoHS	12		50	16	0.044	2.3	
LHL08□150K		RoHS	15			13	0.053	2.0	
LHL08□180K		RoHS	18			12	0.060	1.9	
LHL08□220K		RoHS	22		40	11	0.068	1.8	
LHL08□270K		RoHS	27			10	0.091	1.5	
LHL08□330K		RoHS	33			8.8	0.10	1.4	
LHL08□390K		RoHS	39			8.4	0.12	1.3	
LHL08□470K		RoHS	47			8.2	0.15	1.2	
LHL08□560K		RoHS	56		35	7.9	0.17	1.1	
LHL08□680K		RoHS	68			7.0	0.20	1.0	
LHL08□820K		RoHS	82		25	6.5	0.22	0.90	
LHL08□101K		RoHS	100			5.7	0.32	0.79	
LHL08□121K		RoHS	120		20	5.2	0.36	0.70	
LHL08□151K		RoHS	150			4.7	0.41	0.64	
LHL08□181K		RoHS	180		35	4.2	0.66	0.60	
LHL08□221K		RoHS	220			3.7	0.73	0.53	
LHL08□271K		RoHS	270		25	3.5	0.85	0.51	
LHL08□331K		RoHS	330			3.2	0.97	0.44	
LHL08□391K		RoHS	390		20	2.9	1.1	0.41	
LHL08□471K		RoHS	470			2.4	1.3	0.38	
LHL08□561K		RoHS	560		25	2.2	1.5	0.35	
LHL08□681K		RoHS	680			2.0	1.8	0.32	
LHL08□821K		RoHS	820		30	1.6	2.3	0.30	
LHL08□102J		RoHS	1000	$\pm 5\%$	55	1.5	2.7	0.25	0.252
LHL08□122J		RoHS	1200		45	1.4	3.2	0.22	
LHL08□152J		RoHS	1500		55	1.3	4.1	0.20	
LHL08□182J		RoHS	1800			1.2	4.8	0.19	
LHL08□222J		RoHS	2200			1.1	5.6	0.16	
LHL08□272J		RoHS	2700			1.0	7.5	0.15	
LHL08□332J		RoHS	3300			0.85	8.5	0.14	
LHL08□392J		RoHS	3900			0.78	9.7	0.11	
LHL08□472J		RoHS	4700		65	0.68	14	0.10	
LHL08□562J		RoHS	5600			0.62	16	0.093	
LHL08□682J		RoHS	6800			0.61	18	0.092	
LHL08□822J		RoHS	8200			0.60	20	0.084	
LHL08□103J		RoHS	10000		60	0.48	32	0.070	L:1kHz Q:0.0796
LHL08□123J		RoHS	12000			0.44	36	0.064	
LHL08□153J		RoHS	15000			0.35	62	0.051	
LHL08□183J		RoHS	18000			0.30	72	0.048	
LHL08□223J		RoHS	22000			0.28	82	0.044	
LHL08□273J		RoHS	27000			0.25	90	0.042	
LHL08□333J		RoHS	33000			0.23	100	0.040	

□ Please specify the packaging code. (TB: Taping, NB: Bulk)

LHL10

Ordering code		EHS (Environmental Hazardous Substances)	Inductance [μ H]	Inductance Tolerance	Q (min.)	Self-resonant frequency [MHz] (min.)	DC Resistance [Ω] (max.)	Rated current [A] (max.)	Measuring frequency [MHz]
LHL10□3R3M		RoHS	3.3	$\pm 20\%$	50	46	0.019	4.2	7.96
LHL10□3R9M		RoHS	3.9			40	0.022	4.1	
LHL10□4R7M		RoHS	4.7			38	0.024	4.0	
LHL10□5R6M		RoHS	5.6			34	0.025	3.8	
LHL10□6R8M		RoHS	6.8			30	0.028	3.4	
LHL10□8R2M		RoHS	8.2			24	0.031	3.3	
LHL10□100K		RoHS	10	$\pm 10\%$	90	19	0.034	3.2	2.52
LHL10□120K		RoHS	12			16	0.038	2.8	
LHL10□150K		RoHS	15			12	0.042	2.6	
LHL10□180K		RoHS	18			9.2	0.046	2.4	
LHL10□220K		RoHS	22		60	8.6	0.061	2.1	
LHL10□270K		RoHS	27			7.1	0.069	2.0	
LHL10□330K		RoHS	33			6.8	0.078	1.9	
LHL10□390K		RoHS	39			6.7	0.085	1.8	
LHL10□470K		RoHS	47		50	6.2	0.093	1.7	
LHL10□560K		RoHS	56			5.2	0.10	1.6	

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PART NUMBERS

Ordering code		EHS (Environmental Hazardous Substances)	Inductance [μ H]	Inductance Tolerance	Q (min.)	Self-resonant frequency [MHz] (min.)	DC Resistance [Ω] (max.)	Rated current [A] (max.)	Measuring frequency [MHz]
LHL10□680K		RoHS	68	±10%	40	4.9	0.12	1.5	2.52
LHL10□820K		RoHS	82			4.7	0.13	1.4	
LHL10□101K		RoHS	100			3.8	0.18	1.2	0.796
LHL10□121K		RoHS	120			3.2	0.25	1.0	
LHL10□151K		RoHS	150			2.9	0.29	0.95	
LHL10□181K		RoHS	180			2.6	0.40	0.80	
LHL10□221K		RoHS	220			2.3	0.44	0.75	
LHL10□271K		RoHS	270		30	2.1	0.50	0.70	
LHL10□331K		RoHS	330			2.0	0.56	0.68	
LHL10□391K		RoHS	390			1.8	0.62	0.63	
LHL10□471K		RoHS	470			1.7	0.84	0.57	
LHL10□561K		RoHS	560			1.5	0.93	0.52	
LHL10□681K		RoHS	680			1.4	1.0	0.48	
LHL10□821K		RoHS	820			1.3	1.4	0.42	
LHL10□102J		RoHS	1000	±5%	50	1.2	1.8	0.41	0.252
LHL10□122J		RoHS	1200			0.87	2.3	0.33	
LHL10□152J		RoHS	1500			0.83	2.7	0.30	
LHL10□182J		RoHS	1800			0.75	3.0	0.29	
LHL10□222J		RoHS	2200			0.70	3.9	0.25	
LHL10□272J		RoHS	2700			0.67	4.3	0.24	
LHL10□332J		RoHS	3300			0.56	5.8	0.21	
LHL10□392J		RoHS	3900			0.54	6.4	0.20	
LHL10□472J		RoHS	4700			0.49	7.1	0.19	
LHL10□562J		RoHS	5600			0.41	9.0	0.17	
LHL10□682J		RoHS	6800			0.38	10	0.16	
LHL10□822J		RoHS	8200			0.36	12	0.15	
LHL10□103J		RoHS	10000		60	0.29	19	0.12	L:1kHz Q:0.0796
LHL10□123J		RoHS	12000			0.27	21	0.11	
LHL10□153J		RoHS	15000			0.24	34	0.090	
LHL10□183J		RoHS	18000			0.21	38	0.081	
LHL10□223J		RoHS	22000		40	0.20	43	0.075	
LHL10□273J		RoHS	27000			0.15	67	0.060	
LHL10□333J		RoHS	33000			0.14	76	0.056	
LHL10□393J		RoHS	39000			0.13	84	0.053	
LHL10□473J		RoHS	47000		30	0.12	96	0.050	L:1kHz Q:0.0252
LHL10□563J		RoHS	56000			0.10	170	0.036	
LHL10□683J		RoHS	68000			0.095	200	0.035	
LHL10□823J		RoHS	82000			0.088	210	0.033	
LHL10□104J		RoHS	100000			0.085	240	0.031	
LHL10□124J		RoHS	120000			0.070	260	0.030	
LHL10□154J		RoHS	150000			0.069	300	0.028	

□ Please specify the packaging code. (TB: Taping, NB: Bulk)

LHL13

Ordering code		EHS (Environmental Hazardous Substances)	Inductance [μ H]	Inductance Tolerance	Q (min.)	Self-resonant frequency [MHz] (min.)	DC Resistance [Ω] (max.)	Rated current [A] (max.)	Measuring frequency [MHz]
LHL13□100K		RoHS	10	±10%	140	19	0.023	4.5	2.52
LHL13□150K		RoHS	15			12	0.028	4.0	
LHL13□220K		RoHS	22			7.6	0.035	3.4	
LHL13□330K		RoHS	33		100	6.9	0.043	3.2	0.796
LHL13□470K		RoHS	47			5.6	0.052	2.8	
LHL13□680K		RoHS	68			4.4	0.070	2.4	
LHL13□101K		RoHS	100		50	3.3	0.12	2.0	0.252
LHL13□151K		RoHS	150			2.6	0.19	1.5	
LHL13□221K		RoHS	220			2.2	0.23	1.3	
LHL13□331K		RoHS	330		40	1.8	0.35	1.1	0.0796
LHL13□471K		RoHS	470			1.5	0.43	0.90	
LHL13□681K		RoHS	680			1.2	0.61	0.80	
LHL13□102J		RoHS	1000	±5%	30	1.0	1.2	0.60	0.252
LHL13□152J		RoHS	1500			0.83	1.8	0.45	
LHL13□222J		RoHS	2200			0.70	2.2	0.40	
LHL13□332J		RoHS	3300		40	0.60	3.4	0.33	0.0796
LHL13□472J		RoHS	4700			0.43	4.7	0.28	
LHL13□682J		RoHS	6800			0.38	5.6	0.25	
LHL13□103J		RoHS	10000		70	0.30	10	0.19	L:1kHz Q:0.0796MHz

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PART NUMBERS

LHL16

Ordering code		EHS (Environmental Hazardous Substances)	Inductance [μH]	Inductance Tolerance	Q (min.)	Self-resonant frequency (MHz) (min.)	DC Resistance [Ω] (max.)	Rated current (A) (max.)	Measuring frequency [MHz]
LHL16□470K		RoHS	47	±10%	70	4.5	0.046	3.7	2.52
LHL16□680K		RoHS	68			3.9	0.054	3.3	
LHL16□101K		RoHS	100		60	2.7	0.077	2.9	0.796
LHL16□151K		RoHS	150			2.3	0.11	2.4	
LHL16□221K		RoHS	220			1.9	0.15	2.0	
LHL16□331K		RoHS	330		40	1.6	0.21	1.5	
LHL16□471K		RoHS	470		30	1.4	0.28	1.3	
LHL16□681K		RoHS	680	±5%	20	1.2	0.35	1.1	0.252
LHL16□102J		RoHS	1000			0.84	0.74	0.86	
LHL16□152J		RoHS	1500			0.69	0.93	0.75	
LHL16□222J		RoHS	2200			0.56	1.4	0.60	
LHL16□332J		RoHS	3300			0.49	2.2	0.50	
LHL16□472J		RoHS	4700			0.41	2.6	0.40	
LHL16□682J		RoHS	6800			0.35	3.9	0.33	
LHL16□103J		RoHS	10000		70	0.26	7.3	0.25	L:1KHz Q:0.0796MHz

□ Please specify the packaging code. (TB: Taping, NB: Bulk)

LHLP10NB

Ordering code		EHS (Environmental Hazardous Substances)	Nominal Inductance [μ H]	L Measuring frequency	Inductance Tolerance	DC Resistance [Ω] (max.)	Rated current [A] (max.)
LHLP10□100M		RoHS	10	2.52	±20%	0.038	2.5
LHLP10□150M		RoHS	15			0.049	2.2
LHLP10□220M		RoHS	22			0.075	1.9
LHLP10□330M		RoHS	33			0.094	1.7
LHLP10□470M		RoHS	47			0.15	1.3
LHLP10□680M		RoHS	68			0.23	1.0
LHLP10□101K		RoHS	100	0.796	±10%	0.30	0.90
LHLP10□151K		RoHS	150			0.47	0.78
LHLP10□221K		RoHS	220			0.70	0.63
LHLP10□331K		RoHS	330			0.88	0.58
LHLP10□471K		RoHS	470			1.3	0.46
LHLP10□681K		RoHS	680			1.9	0.38
LHLP10□102K		RoHS	1000	0.252		3.2	0.30

□ Please specify the packaging code. (TB: Taping, NB: Bulk)

LHLP12NB

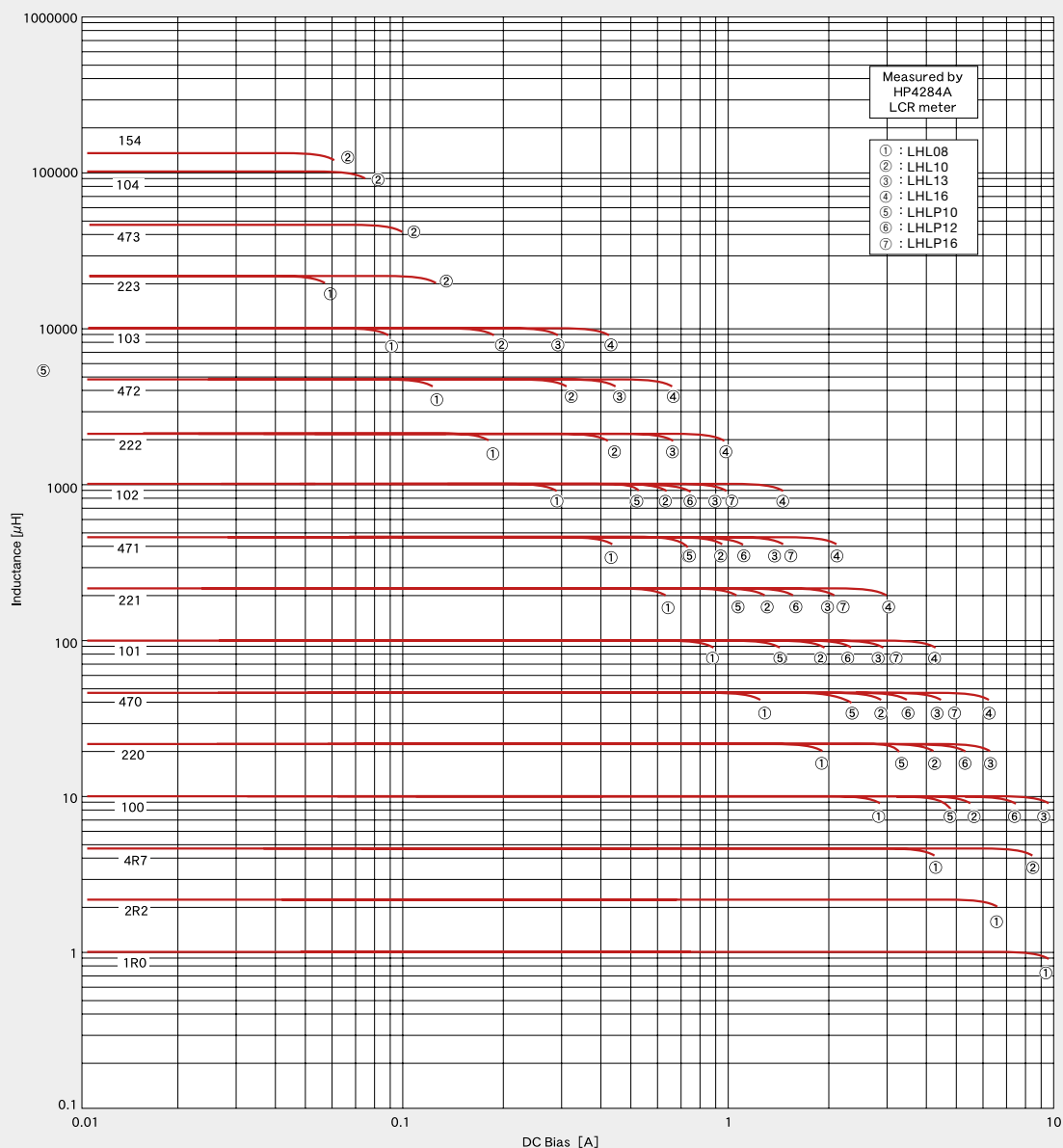
Ordering code		EHS (Environmental Hazardous Substances)	Nominal Inductance [μ H]	L Measuring frequency	Inductance Tolerance	DC Resistance [Ω] (max.)	Rated current [A] (max.)
LHLP12NB150M		RoHS	15	2.52	±20%	0.035	3.3
LHLP12NB220M		RoHS	22			0.050	2.7
LHLP12NB330M		RoHS	33			0.070	2.4
LHLP12NB470M		RoHS	47			0.081	2.1
LHLP12NB680M		RoHS	68			0.12	1.7
LHLP12NB101K		RoHS	100	0.796	±10%	0.16	1.6
LHLP12NB151K		RoHS	150			0.24	1.3
LHLP12NB221K		RoHS	220			0.38	0.95
LHLP12NB331K		RoHS	330			0.46	0.89
LHLP12NB471K		RoHS	470			0.69	0.74
LHLP12NB681K		RoHS	680			1.1	0.58
LHLP12NB102K		RoHS	1000	0.252		1.8	0.46

LHLP16NB

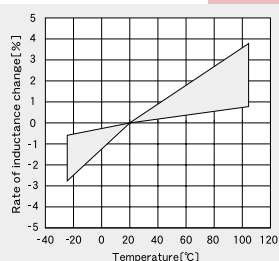
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LHLP16NB100M		RoHS	10	1kHz	±20%	0.019	5.2
LHLP16NB150M		RoHS	15			0.025	5.1
LHLP16NB220M		RoHS	22			0.027	4.6
LHLP16NB330M		RoHS	33			0.035	4.0
LHLP16NB470K		RoHS	47		±10%	0.045	3.4
LHLP16NB680K		RoHS	68			0.062	3.1
LHLP16NB101K		RoHS	100			0.091	2.3
LHLP16NB151K		RoHS	150			0.14	1.9
LHLP16NB221K		RoHS	220			0.20	1.5
LHLP16NB331K		RoHS	330			0.31	1.3
LHLP16NB471K		RoHS	470			0.47	1.0
LHLP16NB681K		RoHS	680			0.58	0.98
LHLP16NB102K		RoHS	1000			0.94	0.74

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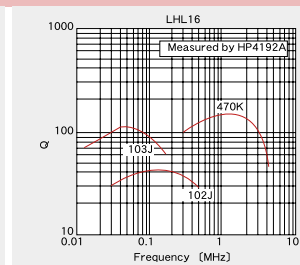
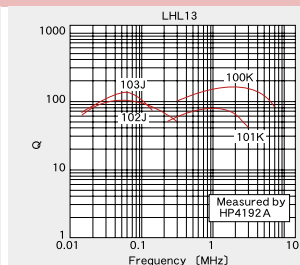
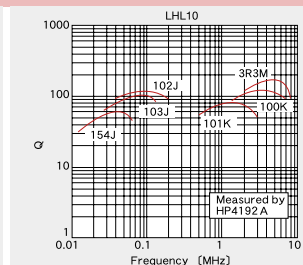
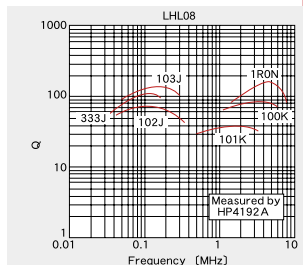
DC Bias characteristics



Temperature characteristics



Q-vs-Frequency characteristics



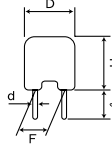
* This catalog contains the typical specification only due to the limitation of space. When you consider purchase of our products, please check our specification.
For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (<http://www.ty-top.com/>) or CD catalogs.

① Minimum Quantity

Type (EIA)	Standard quantity (pcs)		
	Box	Bulk	Taped
LHL 08	—	100	1000
LHL 10	—	50	500
LHL 13	—	25	500
LHL 16	500	—	250
LHLP10	500	—	200
LHLP12NB	300	—	—
LHLP16NB	200	—	—

② Bulk dimensions

● LHL08~16

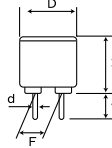


Type	Dimensions				
	ϕD (max)	H_2 (max)	F^*	ℓ	ϕd
LHL08	9.0 (0.354)	9.5 (0.374)	5.0 ± 1.0 (0.197 $\pm$ 0.039)	5.0 ± 1.0 (0.197 $\pm$ 0.039)	0.6 ± 0.05 (0.024 $\pm$ 0.002)
LHL10	11.0 (0.433)	14.0 (0.551)	5.0 ± 1.0 (0.197 $\pm$ 0.039)	5.0 ± 1.0 (0.197 $\pm$ 0.039)	0.6 ± 0.05 (0.024 $\pm$ 0.002)
LHL13	14.0 (0.551)	17.0 (0.669)	7.5 ± 1.0 (0.295 $\pm$ 0.039)	5.0 ± 1.0 (0.197 $\pm$ 0.039)	0.8 ± 0.05 (0.031 $\pm$ 0.002)
LHL16	17.0 (0.669)	21.0 (0.827)	7.5 ± 1.0 (0.295 $\pm$ 0.039)	5.0 ± 1.0 (0.197 $\pm$ 0.039)	0.8 ± 0.05 (0.031 $\pm$ 0.002)

*Measured at the base of the leads.

Unit : mm (inch)

● LHLP10~16

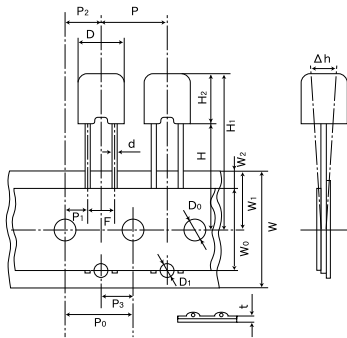


Type	Dimensions				
	ϕD (max)	H_2 (max)	F^*	ℓ	ϕd
LHLP10	11.0 (0.433)	11.0 (0.433)	5.0 ± 1.0 (0.197 $\pm$ 0.039)	5.0 ± 1.0 (0.197 $\pm$ 0.039)	0.6 ± 0.05 (0.024 $\pm$ 0.004)
LHLP12	13.0 (0.512)	16.0 (0.624)	5.0 ± 1.0 (0.197 $\pm$ 0.039)	5.0 ± 1.0 (0.197 $\pm$ 0.039)	0.6 ± 0.05 (0.024 $\pm$ 0.004)
LHLP16	17.0 (0.669)	19.0 (0.741)	7.5 ± 1.0 (0.295 $\pm$ 0.039)	5.0 ± 1.0 (0.197 $\pm$ 0.039)	0.8 ± 0.05 (0.031 $\pm$ 0.004)

*Measured at the base of the leads.

Unit : mm (inch)

● LHL08~16



	LHL08	LHL10	LHL13	LHL16
D	$\phi 9.0$ max ($\phi 0.354$ max)	$\phi 11.0$ max ($\phi 0.433$ max)	$\phi 14.0$ max ($\phi 0.551$ max)	$\phi 17.0$ max ($\phi 0.669$ max)
H_1	30.5 max (1.20 max)	34.0 max (1.34 max)	37.0 max (1.46 max)	41.0 max (1.61 max)
H	$18.0^{+2.0}_{-0.0}$ (0.709 $^{+0.079}_{-0.000}$)	$18.0^{+2.0}_{-0.0}$ (0.709 $^{+0.079}_{-0.000}$)	$18.0^{+2.0}_{-0.0}$ (0.709 $^{+0.079}_{-0.000}$)	$18.0^{+2.0}_{-0.0}$ (0.709 $^{+0.079}_{-0.000}$)
H_2	9.5 max (0.374 max)	14.0 max (0.551 max)	17.0 max (0.669 max)	21.0 max (0.827 max)

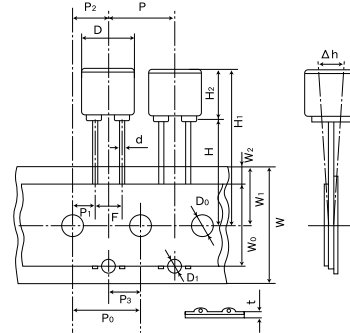
	LHL08	LHL10	LHL13	LHL16
P	12.7 ± 1.0 (0.500 $\pm$ 0.039)	12.7 ± 1.0 (0.500 $\pm$ 0.039)	15.0 ± 1.0 (0.591 $\pm$ 0.039)	30.0 ± 1.0 (1.18 $\pm$ 0.039)
P_0	$12.7 \pm 0.3^{*1}$ (0.500 $\pm$ 0.012)	$12.7 \pm 0.3^{*1}$ (0.500 $\pm$ 0.012)	$15.0 \pm 0.3^{*1}$ (0.591 $\pm$ 0.012)	$15.0 \pm 0.3^{*1}$ (0.591 $\pm$ 0.012)
P_1	3.85 ± 0.7 (0.152 $\pm$ 0.028)	3.85 ± 0.7 (0.152 $\pm$ 0.028)	3.75 ± 0.7 (0.148 $\pm$ 0.028)	3.75 ± 0.7 (0.148 $\pm$ 0.028)
P_2	6.35 ± 1.3 (0.250 $\pm$ 0.051)	6.35 ± 1.3 (0.250 $\pm$ 0.051)	7.50 ± 1.3 (0.295 $\pm$ 0.051)	7.50 ± 1.3 (0.295 $\pm$ 0.051)
F	$5.0^{+0.8}_{-0.2}$ (0.197 $^{+0.031}_{-0.008}$)	$5.0^{+0.8}_{-0.2}$ (0.197 $^{+0.031}_{-0.008}$)	$7.50^{+0.8}_{-0.2}$ (0.295 $^{+0.031}_{-0.008}$)	7.50 ± 0.5 (0.295 $\pm$ 0.020)
h	0.0 ± 2.0 (0.0 $\pm$ 0.079)	0.0 ± 2.0 (0.0 $\pm$ 0.079)	0.0 ± 2.0 (0.0 $\pm$ 0.079)	0.0 ± 2.0 (0.0 $\pm$ 0.079)
W	$18.0^{+1.0}_{-0.5}$ (0.709 $^{+0.039}_{-0.020}$)	$18.0^{+1.0}_{-0.5}$ (0.709 $^{+0.039}_{-0.020}$)	$18.0^{+1.0}_{-0.5}$ (0.709 $^{+0.039}_{-0.020}$)	$18.0^{+1.0}_{-0.5}$ (0.709 $^{+0.039}_{-0.020}$)
W_0	12.5 min (0.492 min)	12.5 min (0.492 min)	12.5 min (0.492 min)	12.5 min (0.492 min)
W_1	9.0 ± 0.5 (0.354 $\pm$ 0.020)	9.0 ± 0.5 (0.354 $\pm$ 0.020)	9.0 ± 0.5 (0.354 $\pm$ 0.020)	9.0 ± 0.5 (0.354 $\pm$ 0.020)
W_2	3.0 max ^{#2} (0.118 max)	3.0 max ^{#2} (0.118 max)	3.0 max ^{#2} (0.118 max)	3.0 max ^{#2} (0.118 max)
D_0	$\phi 4.0 \pm 0.2$ ($\phi 0.158 \pm 0.008$)	$\phi 4.0 \pm 0.2$ ($\phi 0.158 \pm 0.008$)	$\phi 4.0 \pm 0.2$ ($\phi 0.158 \pm 0.008$)	$\phi 4.0 \pm 0.2$ ($\phi 0.158 \pm 0.008$)
ϕd	$\phi 0.6 \pm 0.05$ ($\phi 0.024 \pm 0.002$)	$\phi 0.6 \pm 0.05$ ($\phi 0.024 \pm 0.002$)	$\phi 0.8 \pm 0.05$ ($\phi 0.031 \pm 0.002$)	$\phi 0.8 \pm 0.05$ ($\phi 0.031 \pm 0.002$)
t	0.6 ± 0.3 (0.024 $\pm$ 0.012)	0.6 ± 0.3 (0.024 $\pm$ 0.012)	0.6 ± 0.3 (0.024 $\pm$ 0.012)	0.6 ± 0.3 (0.024 $\pm$ 0.012)
D_1	$\phi 1.8$ (0.071)	$\phi 1.8$ (0.071)	$\phi 1.8$ (0.071)	—
P_3	6.35 (0.25)	6.35 (0.25)	7.50 (0.25)	—

*1 Accumulated error for 20 pitches is 1mm.

Unit : mm (inch)

*2 Bonding tape must not protrude from the base tape.

● LHLP10TB



Type	Symbol	Dimensions	Symbol	Dimensions
LHLP10	D	$\phi 11.0$ max ($\phi 0.433$ max)	W	$18.0^{+1.0}_{-0.5}$ (0.709 $^{+0.039}_{-0.020}$)
	H_1	32.0 max (1.26 max)	W_0	12.5 min (0.492 min)
	H	$18.0^{+2.0}_{-0.0}$ (0.709 $^{+0.079}_{-0.000}$)	W_1	9.0 ± 0.5 (0.354 $\pm$ 0.020)
	H_2	11.0 max (0.433 max)	W_2	3.0 max ^{#2} (0.118 max)
	P	12.7 ± 1.0 (0.500 $\pm$ 0.039)	D_0	$\phi 4.0 \pm 0.2$ ($\phi 0.158 \pm 0.008$)
	P_0	$12.7 \pm 0.3^{*1}$ (0.500 $\pm$ 0.012)	ϕd	$\phi 0.6 \pm 0.05$ ($\phi 0.024 \pm 0.002$)
	P_1	3.85 ± 0.7 (0.152 $\pm$ 0.028)	t	0.6 ± 0.3 (0.024 $\pm$ 0.012)
	P_2	6.35 ± 1.3 (0.250 $\pm$ 0.051)	D_1	$\phi 1.8$ (0.071)
	F	$5.0^{+0.8}_{-0.2}$ (0.197 $^{+0.031}_{-0.008}$)	P_3	6.35 (0.25)
	h	0.0 ± 2.0 (0.0 $\pm$ 0.079)	Unit : mm (inch)	

*1 Accumulated error for 20 pitches is 1mm.

*2 Bonding tape must not protrude from the base tape.