

# HIGH CURRENT LEADED INDUCTORS



WAVE

## FEATURES

- CAL45 is high current type, and has superior DC bias characteristics.
- Wide selection of configurations including axial leaded, formed radial leads to meet most manufacturing needs.
- LHLC08/LHLC10 series which are encapsulated in a resin housing, are radial leaded inductor for high current applications.

## APPLICATIONS

- For DC/DC converter (LCD TV, PDP TV, CTV, DVD etc.)

## OPERATING TEMP.

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

## ORDERING CODE

[CA type]

C A L  $\triangle$  4 5 T B 1 0 0 K  $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$

<b>1</b> Type	<b>2</b> Product Specification	<b>3</b> Dimensions (L×D) [mm] max	<b>4</b> Lead Configurations	<b>5</b> Nominal Inductance [ $\mu$ H]	<b>6</b> Inductance Tolerance [%]	<b>7</b> Internal code
CA High current axial leaded inductor	L $\triangle$ Standard type $\triangle$ =Blank space	45 8.0×4.4	TB Axial lead (52mm lead space)/ ammo pack VB Formed lead/ ammo pack	example 1R5 1.5 120 12 *R=decimal point	K $\pm$ 10	$\triangle\triangle\triangle\triangle\triangle$ Standard product $\triangle$ = Blank space

[LH type]

L H L C 0 8 T B 1 0 1 K  $\bigcirc$   $\bigcirc$   $\bigcirc$

<b>1</b> Type	<b>2</b> Product Specification	<b>3</b> Dimensions [mm] max	<b>4</b> Packing Code	<b>5</b> Nominal Inductance [ $\mu$ H]	<b>6</b> Inductance Tolerance [%]	<b>7</b> Internal code
LH Radial leaded inductor	LC High current type	08 9.0 10 11.0	NB Bulk TB Ammo packing	example 1R5 1.5 120 12 102 1000 *R=decimal point	J $\pm$ 5 K $\pm$ 10 M $\pm$ 20	$\triangle\triangle\triangle$ Standard product $\triangle$ = Blank space

## EXTERNAL DIMENSIONS/STANDARD QUANTITY

[CA type]

Type	Fig.	Dimensions [mm] (inch)			Taped		Standard Quantity (pcs)	
		L	$\phi$ D	$\phi$ d	Straight	Formed	Bulk	Taped
CAL45		8.0max (0.315max)	4.4max (0.173max)	0.65 $\pm$ 0.05 (0.026 $\pm$ 0.002)	TB	VB	—	Axial lead 2000 Formed lead 1500

Unit : mm (inch)

[LH type]

Type	Fig.	D	H <sub>2</sub>	$\ell$	F	$\phi$ d	Standard Quantity (pcs)	
							Bulk	Taped
LHLC08		9.0max (0.354max)	9.5max (0.374max)	5.0 $\pm$ 1.0 (0.197 $\pm$ 0.039)	5.0 $\pm$ 1.0 (0.197 $\pm$ 0.039)	0.6 $\pm$ 0.05 (0.024 $\pm$ 0.002)	100	1000
LHLC10		11.0max (0.433max)	14.0max (0.551max)	5.0 $\pm$ 1.0 (0.197 $\pm$ 0.039)	5.0 $\pm$ 1.0 (0.197 $\pm$ 0.039)	0.6 $\pm$ 0.05 (0.024 $\pm$ 0.002)	50	500

Unit : mm (inch)

## AVAILABLE INDUCTANCE RANGE

Range	Type	CAL45		LHLC08		LHLC10	
		Rdc max[ $\Omega$ ]	I <sub>max</sub> [A]	Rdc max[ $\Omega$ ]	I <sub>max</sub> [A]	Rdc max[ $\Omega$ ]	I <sub>max</sub> [A]
0.1 $\mu$		0.036	3.3	0.013	5.4		
1.0 $\mu$		1.0 $\mu$		1.0 $\mu$		3.3 $\mu$	
10 $\mu$		0.14	1.7	0.041	2.9	0.034	3.6
100 $\mu$		1.2	0.59	0.32	1.0	0.18	1.5
1.0m		13.2	0.17	2.7	0.35	1.8	0.48
10m		10m		32.0	0.11	19.0	0.14
100m				33m		240.0	0.038
						150m	

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■ PART NUMBERS

● CAL45

Ordering code	EHS (Environmental Hazardous Substances)	Inductance [ $\mu$ H]	Inductance Tolerance	Measuring frequency [MHz]	DC Resistance [ $\Omega$ ] (max.)	Rated current ※)	
						Saturation current Idc1 [mA] (max.)	Temperature rise current Idc2 [mA] (max.)
CAL 45 ○ 1R0K	RoHS	1.0	±10%	7.96	0.036	5600	3300
CAL 45 ○ 1R2K	RoHS	1.2			0.039	5000	3200
CAL 45 ○ 1R5K	RoHS	1.5			0.041	4400	3000
CAL 45 ○ 1R8K	RoHS	1.8			0.048	4100	2800
CAL 45 ○ 2R2K	RoHS	2.2			0.054	3900	2700
CAL 45 ○ 2R7K	RoHS	2.7			0.058	3500	2500
CAL 45 ○ 3R3K	RoHS	3.3			0.066	3100	2400
CAL 45 ○ 3R9K	RoHS	3.9			0.072	3000	2300
CAL 45 ○ 4R7K	RoHS	4.7			0.079	2800	2200
CAL 45 ○ 5R6K	RoHS	5.6			0.089	2500	2100
CAL 45 ○ 6R8K	RoHS	6.8		0.097	2200	2000	
CAL 45 ○ 8R2K	RoHS	8.2		0.110	2000	1900	
CAL 45 ○ 100K	RoHS	10		0.14	1700	1800	
CAL 45 ○ 120K	RoHS	12		0.17	1600	1450	
CAL 45 ○ 150K	RoHS	15		0.19	1400	1430	
CAL 45 ○ 180K	RoHS	18		0.24	1250	1300	
CAL 45 ○ 220K	RoHS	22		0.28	1200	1220	
CAL 45 ○ 270K	RoHS	27		0.33	1100	1130	
CAL 45 ○ 330K	RoHS	33		0.37	1000	1080	
CAL 45 ○ 390K	RoHS	39		0.47	920	900	
CAL 45 ○ 470K	RoHS	47		0.52	890	870	
CAL 45 ○ 560K	RoHS	56		0.75	790	710	
CAL 45 ○ 680K	RoHS	68		0.78	700	700	
CAL 45 ○ 820K	RoHS	82		0.92	620	640	
CAL 45 ○ 101K	RoHS	100		1.2	590	630	
CAL 45 ○ 121K	RoHS	120		1.6	550	490	
CAL 45 ○ 151K	RoHS	150		1.8	490	470	
CAL 45 ○ 181K	RoHS	180		2.3	420	450	
CAL 45 ○ 221K	RoHS	220		2.9	370	425	
CAL 45 ○ 271K	RoHS	270		3.4	350	355	
CAL 45 ○ 331K	RoHS	330		3.6	320	330	
CAL 45 ○ 391K	RoHS	390		4.9	290	280	
CAL 45 ○ 471K	RoHS	470		6.3	270	240	
CAL 45 ○ 561K	RoHS	560		7.0	250	240	
CAL 45 ○ 681K	RoHS	680		7.8	240	220	
CAL 45 ○ 821K	RoHS	820		11.0	220	210	
CAL 45 ○ 102K	RoHS	1000		13.2	190	170	
CAL 45 ○ 122K	RoHS	1200		17	170	150	
CAL 45 ○ 152K	RoHS	1500		22	150	140	
CAL 45 ○ 182K	RoHS	1800		27	140	120	
CAL 45 ○ 222K	RoHS	2200	36	130	110		
CAL 45 ○ 272K	RoHS	2700	45	110	90		
CAL 45 ○ 332K	RoHS	3300	65	100	75		
CAL 45 ○ 392K	RoHS	3900	69	95	70		
CAL 45 ○ 472K	RoHS	4700	80	90	65		
CAL 45 ○ 562K	RoHS	5600	90	90	60		
CAL 45 ○ 682K	RoHS	6800	100	80	60		
CAL 45 ○ 822K	RoHS	8200	125	75	50		
CAL 45 ○ 103K	RoHS	10000	0.0796	155	65	45	

○ Please specify the Lead configuration code.

※) The saturation current value (Idc1) is the DC current value having inductance decrease down to 10%. (at 20°C)

※) The temperature rise current value (Idc2) is the DC current value having temperature increase up to 40°C. (at 20°C)

※) The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

● LHLC08

Ordering code	EHS (Environmental Hazardous Substances)	Inductance [ $\mu$ H]	Inductance Tolerance	Q (min.)	Self-resonant frequency [MHz] (min.)	DC Resistance [ $\Omega$ ] (max.)	Rated current [A] (max.)	Measuring frequency [MHz]
LH LC08□□1R0N	RoHS	1.0	±30%	40	76	0.013	5.4	7.96
LH LC08□□1R5M	RoHS	1.5	±20%		65	0.014	5.2	
LH LC08□□2R2M	RoHS	2.2			56	0.017	4.8	
LH LC08□□2R7M	RoHS	2.7			48	0.019	4.2	
LH LC08□□3R3M	RoHS	3.3			41	0.021	3.8	
LH LC08□□3R9M	RoHS	3.9			33	0.024	3.7	
LH LC08□□4R7M	RoHS	4.7			30	0.025	3.6	
LH LC08□□5R6M	RoHS	5.6			23	0.028	3.5	
LH LC08□□6R8M	RoHS	6.8			21	0.030	3.4	
LH LC08□□8R2M	RoHS	8.2			19	0.034	3.0	
LH LC08□□100K	RoHS	10		±10%	65	17	0.041	2.9
LH LC08□□120K	RoHS	12	16		0.044	2.8		
LH LC08□□150K	RoHS	15	50		13	0.053	2.6	
LH LC08□□180K	RoHS	18			12	0.060	2.4	
LH LC08□□220K	RoHS	22			11	0.068	2.3	

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**PART NUMBERS**

Ordering code		EHS (Environmental Hazardous Substances)	Inductance [ $\mu$ H]	Inductance Tolerance	Q (min.)	Self-resonant frequency [MHz] (min.)	DC Resistance [ $\Omega$ ] (max.)	Rated current [A] (max.)	Measuring frequency [MHz]
LH LC08□□270K		RoHS	27	±10%	50	10	0.091	2.0	2.52
LH LC08□□330K		RoHS	33		40	8.8	0.10	1.9	
LH LC08□□390K		RoHS	39			8.4	0.12	1.7	
LH LC08□□470K		RoHS	47			8.2	0.15	1.5	
LH LC08□□560K		RoHS	56			7.9	0.17	1.4	
LH LC08□□680K		RoHS	68		35	7.0	0.20	1.3	
LH LC08□□820K		RoHS	82			6.5	0.22	1.2	
LH LC08□□101K		RoHS	100		25	5.7	0.32	1.0	
LH LC08□□121K		RoHS	120			5.2	0.36	0.96	
LH LC08□□151K		RoHS	150		20	4.7	0.41	0.88	
LH LC08□□181K		RoHS	180			4.2	0.66	0.71	
LH LC08□□221K		RoHS	220		35	3.7	0.73	0.66	
LH LC08□□271K		RoHS	270			3.5	0.85	0.63	
LH LC08□□331K		RoHS	330		25	3.2	0.97	0.59	
LH LC08□□391K		RoHS	390			2.9	1.1	0.55	
LH LC08□□471K		RoHS	470		25	2.4	1.3	0.49	
LH LC08□□561K		RoHS	560			2.2	1.5	0.47	
LH LC08□□681K		RoHS	680			2.0	1.8	0.44	
LH LC08□□821K		RoHS	820		30	1.6	2.3	0.38	
LH LC08□□102J		RoHS	1000			1.5	2.7	0.35	
LH LC08□□122J		RoHS	1200	±5%	45	1.4	3.2	0.31	0.252
LH LC08□□152J		RoHS	1500		55	1.3	4.1	0.29	
LH LC08□□182J		RoHS	1800			1.2	4.8	0.26	
LH LC08□□222J		RoHS	2200			1.1	5.6	0.23	
LH LC08□□272J		RoHS	2700			1.0	7.5	0.21	
LH LC08□□332J		RoHS	3300			0.85	8.5	0.19	
LH LC08□□392J		RoHS	3900			0.78	9.7	0.18	
LH LC08□□472J		RoHS	4700		65	0.68	14	0.16	
LH LC08□□562J		RoHS	5600			0.62	16	0.15	
LH LC08□□682J		RoHS	6800			0.61	18	0.14	
LH LC08□□822J		RoHS	8200	60	0.60	20	0.13	L:1kHz Q:0.0796	
LH LC08□□103J		RoHS	10000		0.48	32	0.11		
LH LC08□□123J		RoHS	12000		0.44	36	0.084		
LH LC08□□153J		RoHS	15000		0.35	62	0.068		
LH LC08□□183J		RoHS	18000		0.30	72	0.066		
LH LC08□□223J		RoHS	22000		0.28	82	0.057		
LH LC08□□273J		RoHS	27000		0.25	90	0.054		
LH LC08□□333J		RoHS	33000		0.23	100	0.053		

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

**LHLC10**

Ordering code		EHS (Environmental Hazardous Substances)	Inductance [ $\mu$ H]	Inductance Tolerance	Q (min.)	Self-resonant frequency [MHz] (min.)	DC Resistance [ $\Omega$ ] (max.)	Rated current [A] (max.)	Measuring frequency [MHz]	
LH LC10□□3R3M		RoHS	3.3	±20%	50	46	0.019	5.0	7.96	
LH LC10□□3R9M		RoHS	3.9			40	0.022	4.8		
LH LC10□□4R7M		RoHS	4.7			38	0.024	4.7		
LH LC10□□5R6M		RoHS	5.6			34	0.025	4.5		
LH LC10□□6R8M		RoHS	6.8			30	0.028	4.1		
LH LC10□□8R2M		RoHS	8.2			24	0.031	3.9		
LH LC10□□100K		RoHS	10	±10%	90	19	0.034	3.6	2.52	
LH LC10□□120K		RoHS	12			16	0.038	3.4		
LH LC10□□150K		RoHS	15			12	0.042	3.2		
LH LC10□□180K		RoHS	18			9.2	0.046	3.0		
LH LC10□□220K		RoHS	22			8.6	0.061	2.8		
LH LC10□□270K		RoHS	27			7.1	0.069	2.7		
LH LC10□□330K		RoHS	33	±10%	60	6.8	0.078	2.6	0.796	
LH LC10□□390K		RoHS	39			6.7	0.085	2.4		
LH LC10□□470K		RoHS	47			6.2	0.093	2.3		
LH LC10□□560K		RoHS	56			5.2	0.10	2.1		
LH LC10□□680K		RoHS	68			40	4.6	0.12		2.0
LH LC10□□820K		RoHS	82				4.7	0.13		1.8
LH LC10□□101K		RoHS	100	3.8	0.18		1.5			
LH LC10□□121K		RoHS	120	3.2	0.25		1.3			
LH LC10□□151K		RoHS	150	30	2.9	0.29	1.2	0.796		
LH LC10□□181K		RoHS	180		2.6	0.40	1.0			
LH LC10□□221K		RoHS	220		2.3	0.44	0.95			
LH LC10□□271K		RoHS	270		2.1	0.50	0.90			
LH LC10□□331K		RoHS	330	±10%	30	2.0	0.56	0.86	0.796	
LH LC10□□391K		RoHS	390			1.8	0.62	0.75		
LH LC10□□471K		RoHS	470			1.7	0.84	0.65		
LH LC10□□561K		RoHS	560			1.5	0.93	0.61		
LH LC10□□681K		RoHS	680			1.4	1.0	0.57		
LH LC10□□821K		RoHS	820			1.3	1.4	0.50		

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## PART NUMBERS

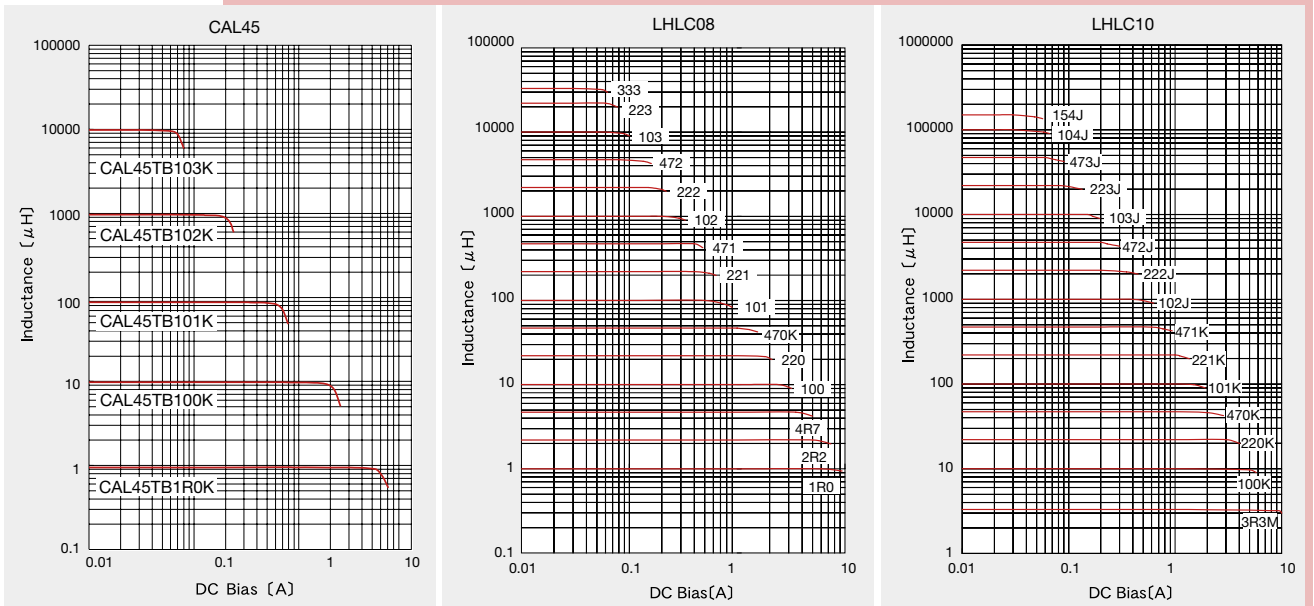
Ordering code	EHS (Environmental Hazardous Substances)	Inductance [ $\mu$ H]	Inductance Tolerance	Q (min.)	Self-resonant frequency [MHz] (min.)	DC Resistance [ $\Omega$ ] (max.)	Rated current [A] (max.)	Measuring frequency [MHz]	
LH LC10□□102J	RoHS	1000	±5%	50	1.2	1.8	0.48	0.252	
LH LC10□□122J	RoHS	1200			0.87	2.3	0.40		
LH LC10□□152J	RoHS	1500			0.83	2.7	0.37		
LH LC10□□182J	RoHS	1800			0.75	3.0	0.36		
LH LC10□□222J	RoHS	2200			0.70	3.9	0.32		
LH LC10□□272J	RoHS	2700			0.67	4.3	0.30		
LH LC10□□332J	RoHS	3300			0.56	5.8	0.26		
LH LC10□□392J	RoHS	3900			0.54	6.4	0.25		
LH LC10□□472J	RoHS	4700			0.49	7.1	0.24		
LH LC10□□562J	RoHS	5600			0.41	9.0	0.21		
LH LC10□□682J	RoHS	6800			0.38	10	0.20		
LH LC10□□822J	RoHS	8200			0.36	12	0.18		
LH LC10□□103J	RoHS	10000			0.29	19	0.14		
LH LC10□□123J	RoHS	12000			0.27	21	0.13		
LH LC10□□153J	RoHS	15000			0.24	34	0.11		
LH LC10□□183J	RoHS	18000		0.21	38	0.10			
LH LC10□□223J	RoHS	22000		0.20	43	0.095			
LH LC10□□273J	RoHS	27000		0.15	67	0.076			
LH LC10□□333J	RoHS	33000		0.14	76	0.068			
LH LC10□□393J	RoHS	39000		0.13	84	0.065			
LH LC10□□473J	RoHS	47000		0.12	96	0.061			
LH LC10□□563J	RoHS	56000		0.10	170	0.045			
LH LC10□□683J	RoHS	68000		0.095	200	0.043			
LH LC10□□823J	RoHS	82000		0.088	210	0.041			
LH LC10□□104J	RoHS	100000		0.085	240	0.038			
LH LC10□□124J	RoHS	120000		0.070	260	0.037			
LH LC10□□154J	RoHS	150000		0.069	300	0.035			
									L:1kHz Q:0.0796
									L:1kHz Q:0.0252

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

## ELECTRICAL CHARACTERISTICS

### DC Bias characteristics

(Measured by HP4285A)



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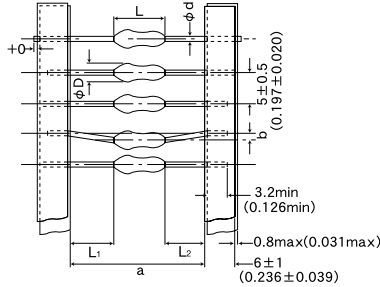
**PACKAGING**

① Minimum Quantity

Type (EIA)	Standard quantity (pcs)		
	Bulk	Taped	
CAL45	—	Axial lead	2000
		Formed lead	1500
LHLC08	100		1000
LHLC10	50		500

② Taping dimensions

- CAL 45 TB (a : 52mm lead space) (2.05 inches)



Type	Dimensions						Minimum insertion pitch
	φD	L	a	b	L <sub>1</sub> -L <sub>2</sub>	φd	
CAL45	4.4max (0.173max)	8.0max (0.315max)	52 <sup>+2</sup> <sub>-0.075</sub> (2.05 <sup>+0.079</sup> <sub>-0.039</sub> )	1.2max (0.047max)	1.0max (0.039max)	0.65±0.05 (0.026±0.002)	10.0 (0.394)

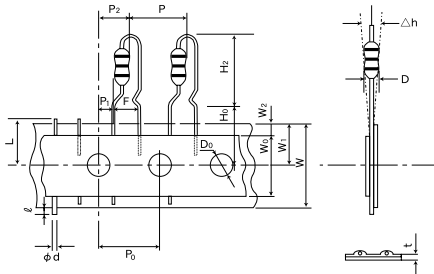
Unit : mm (inch)

③ Bulk dimensions

Type	Dimensions				
	φD (max)	H <sub>2</sub> (max)	F*	ℓ	φd
LHLC08	9.0 (0.354)	9.5 (0.374)	5.0±1.0 (0.197±0.039)	5.0±1.0 (0.197±0.039)	0.6±0.05 (0.024±0.002)
LHLC10	11.0 (0.433)	14.0 (0.551)	5.0±1.0 (0.197±0.039)	5.0±1.0 (0.197±0.039)	0.6±0.05 (0.024±0.002)

\*Measured at the base of the leads. Unit : mm (inch)

- CAL 45VB

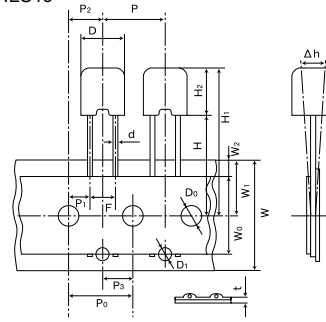


Type	Symbol	Dimensions	Symbol	Dimensions
CAL 45	D	φ4.4max	W	18.0 <sup>+1.0</sup> <sub>-0.5</sub> (0.709 <sup>+0.039</sup> <sub>-0.020</sub> )
	H <sub>2</sub>	14.0max (0.551max)	W <sub>0</sub>	12.5min (0.492min)
	H <sub>0</sub>	16.0±1.0 (0.630±0.039)	W <sub>1</sub>	9.0 <sup>+0.75</sup> <sub>-0.5</sub> (0.354 <sup>+0.030</sup> <sub>-0.020</sub> )
	P	12.7±1.0 (0.500±0.039)	W <sub>2</sub>	3.0max <sup>※2</sup> (0.118max)
	P <sub>0</sub>	12.7±0.3 <sup>※1</sup> (0.500±0.012)	ℓ	2.0max (0.079max)
	P <sub>1</sub>	3.85±0.7 (0.152±0.028)	D <sub>0</sub>	φ4.0±0.2 (φ0.157±0.008)
	P <sub>2</sub>	6.35±1.3 (0.250±0.051)	φd	φ0.65±0.05 (φ0.026±0.002)
	F	5.0±1.0 (0.197±0.039)	L	11.0max (0.433max)
	Δh	0.0±2.0 (0.0±0.079)	t	0.9max (0.035max)

※1 Accumulated error for 20 pitches is ± 1mm.  
 ※2 Bonding tape must not protrude from the base tape.

Unit : mm (inch)

- LHLC08, LHLC10



	LHLC08	LHLC10
D	φ9.0max (φ0.354max)	φ11.0max (φ0.433max)
H <sub>1</sub>	30.5max (1.20max)	34.0max (1.34max)
H	18.0 <sup>+2.0</sup> <sub>-0.0</sub> (0.709 <sup>+0.079</sup> <sub>-0.008</sub> )	18.0 <sup>+2.0</sup> <sub>-0.0</sub> (0.709 <sup>+0.079</sup> <sub>-0.008</sub> )
H <sub>2</sub>	9.5max (0.374max)	14.0max (0.551max)
P	12.7±1.0 (0.500±0.039)	12.7±1.0 (0.500±0.039)
P <sub>0</sub>	12.7±0.3 <sup>※1</sup> (0.500±0.012)	12.7±0.3 <sup>※1</sup> (0.500±0.012)
P <sub>1</sub>	3.85±0.7 (0.152±0.028)	3.85±0.7 (0.152±0.028)
P <sub>2</sub>	6.35±1.3 (0.250±0.051)	6.35±1.3 (0.250±0.051)
F	5.0 <sup>+0.8</sup> <sub>-0.2</sub> (0.197 <sup>+0.031</sup> <sub>-0.008</sub> )	5.0 <sup>+0.8</sup> <sub>-0.2</sub> (0.197 <sup>+0.031</sup> <sub>-0.008</sub> )
h	0.0±2.0 (0.0±0.079)	0.0±2.0 (0.0±0.079)
W	18.0 <sup>+1.0</sup> <sub>-0.5</sub> (0.709 <sup>+0.039</sup> <sub>-0.020</sub> )	18.0 <sup>+1.0</sup> <sub>-0.5</sub> (0.709 <sup>+0.039</sup> <sub>-0.020</sub> )
W <sub>0</sub>	12.5min (0.492min)	12.5min (0.492min)
W <sub>1</sub>	9.0±0.5 (0.354±0.020)	9.0±0.5 (0.354±0.020)
W <sub>2</sub>	3.0max <sup>※2</sup> (0.118max)	3.0max <sup>※2</sup> (0.118max)
D <sub>0</sub>	φ4.0±0.2 (φ0.158±0.008)	φ4.0±0.2 (φ0.158±0.008)
φd	φ0.6±0.05 (φ0.024±0.002)	φ0.6±0.05 (φ0.024±0.002)
t	0.6±0.3 (0.024±0.012)	0.6±0.3 (0.024±0.012)
D <sub>1</sub>	φ1.8 (0.071)	φ1.8 (0.071)
P <sub>3</sub>	6.35 (0.25)	6.35 (0.25)

※1 Accumulated error for 20 pitches is 1mm. Unit : mm (inch)  
 ※2 Bonding tape must not protrude from the base tape.

\* 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.