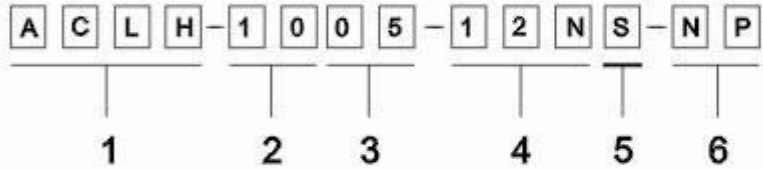


# MULTILAYER RF CHIP INDUCTOR ACLH TYPE



## PRODUCT IDENTIFICATION

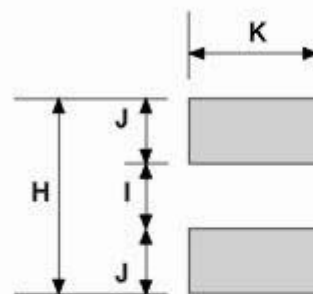
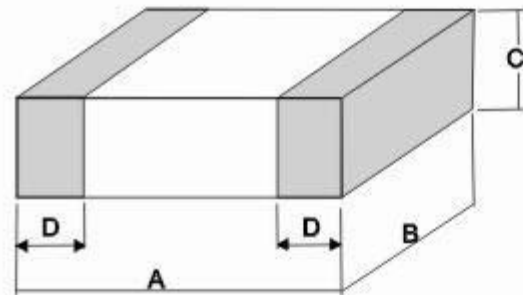


- 1.PRODUCT SYMBOL
- 2.OUTSIDE DIA : mm
- 3.BODY HEIGHT : mm
- 4.INDUCTANCE : nH
- 5.TOLERANCE : S $\pm$ 0.3nH , J $\pm$ 5% , K $\pm$ 10%
- 6.Meet ROHS Regulations of Prohibited 6 Poisonous Materials

## SHAPES & DIMENSION FOR ACLH SERIES (mm)

### FEATURE

- Meet SONY SS-00259's criteria for lead-free product
- Excellent Q factor and SRF characteristics
- Cost effective
- Small size of 1005/1608 is Suitable for small portable equipment
- Supports operating frequency up to 6GHz with nominal Inductance values from 1.0nH to 330nH



Part No.	A	B	C	D	H	I	K
ACLH1005	1.0 $\pm$ 0.1	0.5 $\pm$ 0.1	0.5 $\pm$ 0.1	0.25 $\pm$ 0.1	1.2~1.4	0.4	0.4
ACLH1608	1.6 $\pm$ 0.15	0.8 $\pm$ 0.15	0.8 $\pm$ 0.15	0.3 $\pm$ 0.2	2.4~3.4	0.8	0.6
ACLH2012	2.0 $\pm$ 0.2	1.25 $\pm$ 0.2	0.9 $\pm$ 0.2	0.5 $\pm$ 0.3	3.0~4.0	1.2	1.0



# MULTILAYER RF CHIP INDUCTOR ACLH TYPE

## ELECTRICAL SPECIFICATION

Part Number	Inductance (nH)	Tolerance	Q Min.	Q Typical At		SRF (MHz)Typical	DC Resistance (Ω)Max.	IDC (mA)Max.
	At 100MHz		At 100MHz	100MHz	800MHz			
ACLH1005-1N0□	1.0	S	8	9	28	10000	0.10	300
ACLH1005-1N2□	1.2	S	8	9	28	10000	0.10	300
ACLH1005-1N5□	1.5	S	8	10	28	9000	0.10	300
ACLH1005-1N8□	1.8	S	8	10	28	8700	0.10	300
ACLH1005-2N2□	2.2	S	8	10	29	8100	0.12	300
ACLH1005-2N7□	2.7	S	8	11	30	7700	0.12	300
ACLH1005-3N3□	3.3	S/K	8	11	30	6300	0.15	300
ACLH1005-3N9□	3.9	S/K	8	11	31	6100	0.15	300
ACLH1005-4N7□	4.7	S/K	8	11	31	5400	0.18	300
ACLH1005-5N6□	5.6	S/K	8	11	31	5100	0.20	300
ACLH1005-6N8□	6.8	J/K	8	11	33	4550	0.25	300
ACLH1005-8N2□	8.2	J/K	8	12	32	4100	0.25	300
ACLH1005-10N□	10	J/K	8	12	32	3900	0.30	300
ACLH1005-12N□	12	J/K	8	12	31	3000	0.30	300
ACLH1005-15N□	15	J/K	8	12	30	2600	0.40	300
ACLH1005-18N□	18	J/K	8	12	29	2350	0.50	300
ACLH1005-22N□	22	J/K	8	12	28	2000	0.60	300
ACLH1005-27N□	27	J/K	8	12	27	1900	0.70	300
ACLH1005-33N□	33	J/K	8	10	25	1700	1.00	200
ACLH1005-39N□	39	J/K	8	10	25	1600	1.20	200
ACLH1005-47N□	47	J/K	8	9	22	1300	1.30	200
ACLH1005-56N□	56	J/K	8	10	21	1250	2.00	200
ACLH1005-68N□	68	J/K	8	10	15	1000	2.20	100
ACLH1005-82N□	82	J/K	8	9	13	900	2.50	100
ACLH1005-R10□	100	J/K	8	9	10	850	2.50	100

# MULTILAYER RF CHIP INDUCTOR ACLH TYPE



## ELECTRICAL SPECIFICATION

Part Number	Inductance (nH)	Tolerance	Q Min.At		Q Typical At					SRF (MHz)Typical	DC Resistance ( $\Omega$ )Max.	IDC (mA)Max.
			50	100	50	100	300	500	800			
			MHz	MHz	MHz	MHz	MHz	MHz	MHz			
ACLH1608-1N0S	1.0	S	8	12					43	10000	0.10	500
ACLH1608-1N2S	1.2	S	8	13					44	10000	0.10	500
ACLH1608-1N5S	1.5	S	8	13					45	8000	0.10	500
ACLH1608-1N8S	1.8	S	8	13					46	8000	0.10	500
ACLH1608-2N2S	2.2	S	8	13					46	7200	0.10	500
ACLH1608-2N7S	2.7	S	10	13					46	6200	0.10	500
ACLH1608-3N3□	3.3	S/K	10	13					47	5200	0.12	500
ACLH1608-3N9□	3.9	S/K	10	13					47	5000	0.14	500
ACLH1608-4N7□	4.7	S/K	10	13					41	4750	0.16	500
ACLH1608-5N6□	5.6	S/K	10	13					41	4100	0.18	500
ACLH1608-6N8□	6.8	J/K	10	13					44	3750	0.22	500
ACLH1608-8N2□	8.2	J/K	10	13					44	3300	0.24	500
ACLH1608-10N□	10	J/K	12	13					45	3000	0.26	300
ACLH1608-12N□	12	J/K	12	15					46	2600	0.28	300
ACLH1608-15N□	15	J/K	12	15					48	2500	0.32	300
ACLH1608-18N□	18	J/K	12	17					48	2400	0.35	300
ACLH1608-22N□	22	J/K	12	17					45	2000	0.40	300
ACLH1608-27N□	27	J/K	12	18					43	1900	0.45	300
ACLH1608-33N□	33	J/K	12	18					39	1600	0.55	300
ACLH1608-39N□	39	J/K	12	18			37			1400	0.60	300
ACLH1608-47N□	47	J/K	12	18			35			1300	0.70	300
ACLH1608-56N□	56	J/K	12	18			32			1100	0.75	300
ACLH1608-62N□	62	J/K	12	18			32			1050	0.85	300
ACLH1608-68N□	68	J/K	12	18			32			1050	0.85	300
ACLH1608-82N□	82	J/K	12	18			30			900	1.00	300
ACLH1608-R10□	100	J/K	12				20			770	1.20	300
ACLH1608-R12□	*120	J/K	8	12	14		20			850	2.30	250
ACLH1608-R15□	*150	J/K	8	12	15		16			550	2.40	250
ACLH1608-R18□	*180	J/K	8	12	15		16			520	2.70	250

※At 50MHz



# MULTILAYER RF CHIP INDUCTOR ACLH TYPE

## ELECTRICAL SPECIFICATION

Part Number	Inductance (nH)	Tolerance	Q Min.At		Q Typical At					SRF (MHz)Typical	DC Resistance (Ω)Max.	IDC (mA)Max.	
			50	100	50	100	300	500	800				
			MHz	MHz	MHz	MHz	MHz	MHz	MHz				
ACLH2012-1N0□	1.0	S		10		13				40	>60000	0.10	300
ACLH2012-1N2□	1.2	S		10		13				40	>60000	0.10	300
ACLH2012-1N5□	1.5	S		10		13				40	>60000	0.10	300
ACLH2012-1N8□	1.8	S		10		13				45	>60000	0.10	300
ACLH2012-2N2□	2.2	S		10		13				48	>60000	0.10	300
ACLH2012-2N7□	2.7	S		12		13				48	>60000	0.10	300
ACLH2012-3N3□	3.3	S/K		12		15				56	>60000	0.13	300
ACLH2012-3N9□	3.9	S/K		12		15				54	5400	0.15	300
ACLH2012-4N7□	4.7	S/K		12		15				50	4500	0.20	300
ACLH2012-5N6□	5.6	S/K		12		15				53	4000	0.23	300
ACLH2012-6N8□	6.8	J/K		15		15				51	3650	0.25	300
ACLH2012-8N2□	8.2	J/K		15		15				53	3000	0.28	300
ACLH2012-10N□	10	J/K		15		16				45	2500	0.30	300
ACLH2012-12N□	12	J/K		15		16				48	2450	0.35	300
ACLH2012-15N□	15	J/K		15		17				48	2000	0.40	300
ACLH2012-18N□	18	J/K		15		17				43	1750	0.45	300
ACLH2012-22N□	22	J/K		15		17				40	1700	0.50	300
ACLH2012-27N□	27	J/K		15		18				38	1550	0.55	300
ACLH2012-33N□	33	J/K		15		19				35	1350	0.60	300
ACLH2012-39N□	39	J/K		18		21				37	1300	0.65	300
ACLH2012-47N□	47	J/K		18		21				38	1200	0.70	300
ACLH2012-56N□	56	J/K		18		21				31	1150	0.75	300
ACLH2012-68N□	68	J/K		18		21				28	1000	0.80	300
ACLH2012-82N□	82	J/K		18		22				16	850	0.90	300
ACLH2012-R10□	100	J/K		18		23					730	1.00	300
ACLH2012-R12□	*120	J/K	13		16	22					650	1.20	300
ACLH2012-R15□	*150	J/K	13		16	22					550	1.40	300
ACLH2012-R18□	*180	J/K	13		16	23					500	1.80	300
ACLH2012-R22□	*220	J/K	13		14	20					450	2.00	300
ACLH2012-R27□	*270	J/K	12		14	20					400	2.50	200
ACLH2012-R33□	*330	J/K	12		14	22					380	3.00	200

※At 50MHz