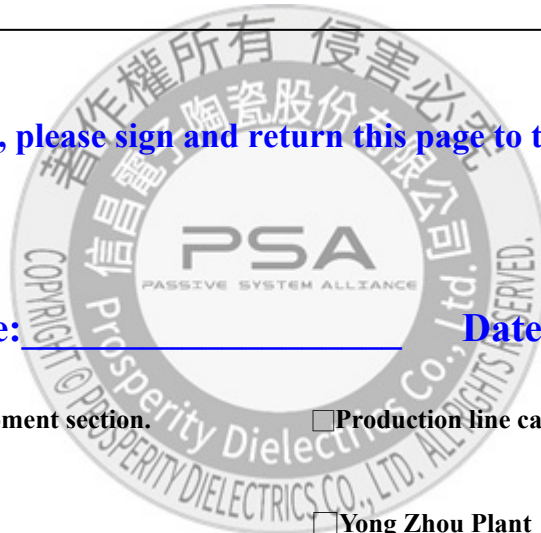


SPECIFICATION FOR APPROVAL

CUSTOMER	_____
CUST. PART NO.	_____
CUST. DOC. REV.	_____
DESCRIPTION	CHIP INDUCTORS (RoHS+H.F.)
SAMPLE LOT NO.	_____
PART NO.	1008HQ-XXXX-LRH
DOC. REV.	_____
DATE	_____

Once you approve this part, please sign and return this page to the following marked location.



Customer Signature: _____ Date: _____

This part currently development section. Production line can produce this series of products.

■ Sales Office-Headquarter

No. 566-1, Kao-Shi Rd., Yangmei, Taoyuan 32668,
Taiwan
TEL: +886-3-475-3355
FAX: +886-3-485-4959

Yong Zhou Plant

Tao-Yuan Rd., Fenghuang Park, Lengshuitan
District, Yongzhou, Hunan 425000, P.R.C.
TEL: +86-746-8610-180
FAX: +86-746-8610-181

Sales Office-Dong Guan,China

No.638,Mei Jing West Road Xiniupo Administrative
Zone Dalang Town,Dong Guan City,GuangDong
Province,China.
TEL: +86-769-8555-0979
FAX: +86-769-8555-0972

TESTED BY	CHECKED BY	APPROVED BY

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■ Test Report	



SPECITICATION FOR APPROVAL

CUSTOMER	CUSTOMER P/N	REV. -	SPL. LOT NO.	
PART NAME CHIP INDUCTOR (RoHS+H.F.)	PART NO. 1008HQ-XXXX-LRH	REV.	DATE OF ISSUE	Q'TY 0 PCS

ENGINEERING CHANGE NOTICE – RECORD

REVISION NO.	REVISION DESCRIPTION	AUTHOR	DATE	REMARK
ORIG				



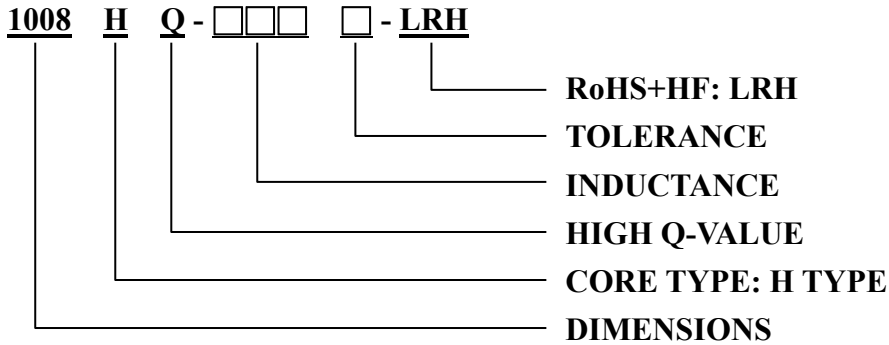
SPECIFICATION FOR APPROVAL

※This is a RoHS and REACH compliant product whose related documents are available on request.

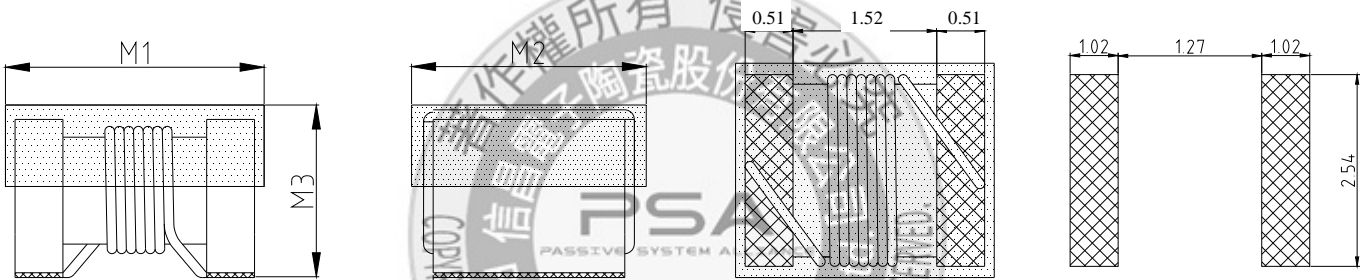
※Graphic is only for dimensionally application.

1. SCOPE: THIS SPECIFICATION APPLIES TO WIRE WOUND CHIP INDUCTORS.

2. PART NUMBER IDENTIFICATION



2. MECHANICAL DIMENSION (UNIT: mm)



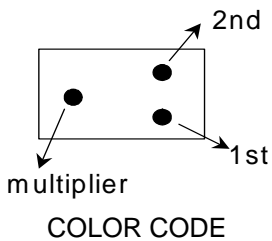
Recommended Patterns

SERIES	M1	M2	M3
1008HQ	2.92 MAX.	2.79 MAX	2.03 MAX

4. RATING TEMPERATURE

OPERATING TEMPERATURE: -25°C ~ +125°C

5. MARKING



Ex. : 1008HQ-3N0□-LRH

MARKING: Dots 1 and 2 indicate the inductance in nano Henries.

(DOTS 1 : ORANGE , DOTS 2 : BLACK)

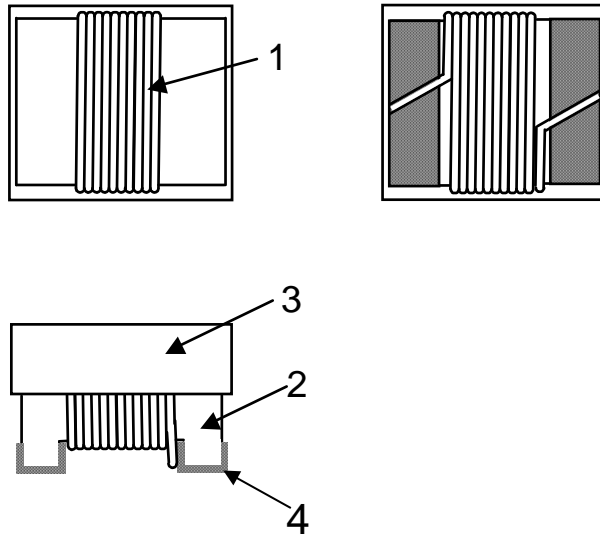
Dots 3 indicates number of zeroes to be added.

(DOTS 3 : BLACK)

MARK COLOR CODE IN COMPOSITE SPECIFICATION 8

SPECIFICATION FOR APPROVAL

6. STRUCTURE



7. MATERIAL LIST

ITEM	MATERIAL CATEGORY	MATERIAL TYPE	UL NO.
1	WIRE	POLYSOL	E143312
2	CORE	CERAMIC CORE	
3	EPOXY	UV TYPE	
4	TERMINAL PLATING	AgPd+Ni+Sn	

8. TEST INSTRUMENT

8-1 L、Q :TESTED BY AGILENT 4287A with 16197A or its equivalent

8-2 SRF : TESTED BY HP 8753E or HP4291B with 16193A or its equivalent

8-3 DCR: TESTED BY AGILENT 4338B or its equivalent

SPECIFICATION FOR APPROVAL

9. ELECTRICAL SPECIFICATION

Part number	Inductance (nH)	Test Frequency (MHz)	Inductance Tolerance	Q MIN.	SRF (GHZ) MIN.	DC Resistance (mΩ) MAX.	I _{rms} (A)	COLOR CODE		
								1st	2nd	multiplier
1008HQ-3N0□-LRH	3.0	50	J	70 @1500MHz	8.10	0.04	1.6	ORANGE	BLACK	BLACK
1008HQ-4N1□-LRH	4.1	50	J	75 @1500MHz	6.20	0.05	1.6	YELLOW	BROWN	BLACK
1008HQ-7N8□-LRH	7.8	50	J	75 @500MHz	3.80	0.05	1.6	VIOLET	GRAY	BLACK
1008HQ-10N□-LRH	10	50	J, G	60 @500MHz	3.60	0.06	1.6	BROWN	BLACK	BROWN
1008HQ-12N□-LRH	12	50	J, G	70 @500MHz	2.80	0.06	1.5	BROWN	RED	BROWN
1008HQ-18N□-LRH	18	50	J, G	62 @350MHz	2.70	0.07	1.4	BROWN	GRAY	BROWN
1008HQ-22N□-LRH	22	50	J, G	62 @350MHz	2.05	0.07	1.4	RED	RED	BROW
1008HQ-33N□-LRH	33	50	J, G	75 @350MHz	1.70	0.09	1.3	ORANGE	ORANGE	BROW
1008HQ-36N□-LRH	36	50	J, G	65 @350MHz	1.40	0.09	1.3	ORANGE	BLUE	BROWN
1008HQ-39N□-LRH	39	50	J, G	75 @350MHz	1.30	0.09	1.3	ORANGE	WHITE	BROWN
1008HQ-47N□-LRH	47	50	J, G	75 @350MHz	1.45	0.12	1.2	YELLOW	VIOLET	BROWN
1008HQ-56N□-LRH	56	50	J, G	75 @350MHz	1.23	0.12	1.2	GREEN	BLUE	BROWN
1008HQ-68N□-LRH	68	50	J, G	80 @350MHz	1.15	0.13	1.1	BROWN	GRAY	BROWN
1008HQ-82N□-LRH	82	50	J, G	80 @350MHz	1.06	0.16	1.1	GRAY	RED	BROWN
1008HQ-R10□-LRH	100	50	J, G	62 @350MHz	0.82	0.16	1.0	BROWN	BLACK	RED
1008HQ-R15□-LRH	150	25	J, G	48 @100MHz	0.82	0.26	1.0	BROWN	GRAY	RED

NOTE:

1. □Tolerance: J:±5%、G:±2%
2. MSL: Level 1

SPECIFICATION FOR APPROVAL

10. RELIABILITY PERFORMANCE

Reliability Experiment For Electrical

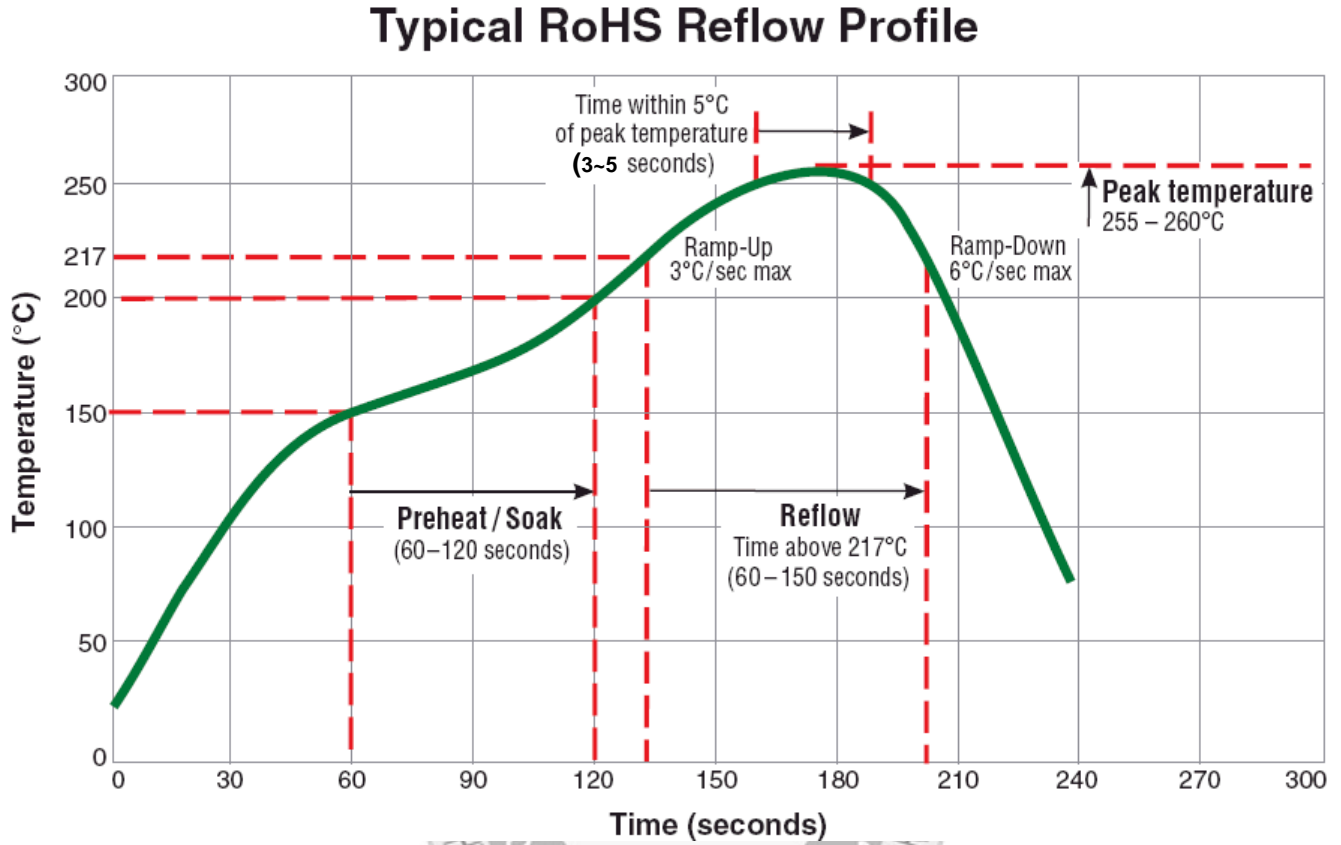
Test Item	Accept criteria	Test Condition	Standard Source
Humidity Test	1.Change from an initial value L:within±5% 2.no visible damage.	+40°C±2°C, humidity of 90% ±5% (total 96 hours).	MIL-STD-202G Method 103B Test Condition B
High Temperature Test	1.Change from an initial value L:within±5% 2.no visible damage.	1.Temperature: +125°C±2°C. 2.Test time: 48±2hrs.	IEC 68-2 Test Condition B
Low Temperature Test	1.Change from an initial value L:within±5% 2.no visible damage.	1.Temperature: -25°C±2°C. 2.Test time: 48±2hrs.	IEC 68-2 Test Condition A
Thermal Shock	1.Change from an initial value L:within±5% 2.no visible damage.	+125°C±5°C (30 minutes) ~ -55±5°C (30 minutes), temperature switch time: 5 minutes (total 50 cycles) Wind speeds 10m/sec.	Reference MIL-STD-202G Method 107G Test Condition A-2
Life Test	1.Change from an initial value L:within±5% 2.no visible damage.	+70°C±5°C (250Hours).	Reference MIL-STD-202G Method 108A Test Condition B

Reliability Experiment For Physical

Test Item	Accept criteria	Test Condition	Standard Source
Vibration Test	1.Change from an initial value L:within±5% 2.no visible damage.	10-55-10HZ, amplitude: 1.5mm, direction: X, Y, Z axes, each axis 2 hours (total 6 hours).	MIL-STD-202G Method 201A
Solder Heat Resistance Test	1.no visible damage.	IR/convection reflow: Peak Temp 255°C ~260°C for 3~5 Sec. in air, Through 2 Cycle. Temperature Ramp:+1~4°C/sec.; Above 217°C, must keep 90 s - 120 s.	Reference MIL-STD-202G Method 210F Test Condition K (Reflow)
Solder Ability Test	1. Lead must have 95% above coverage.	Soak in 245°C solder pot of 3~5 Sec.	Reference J-STD-002D

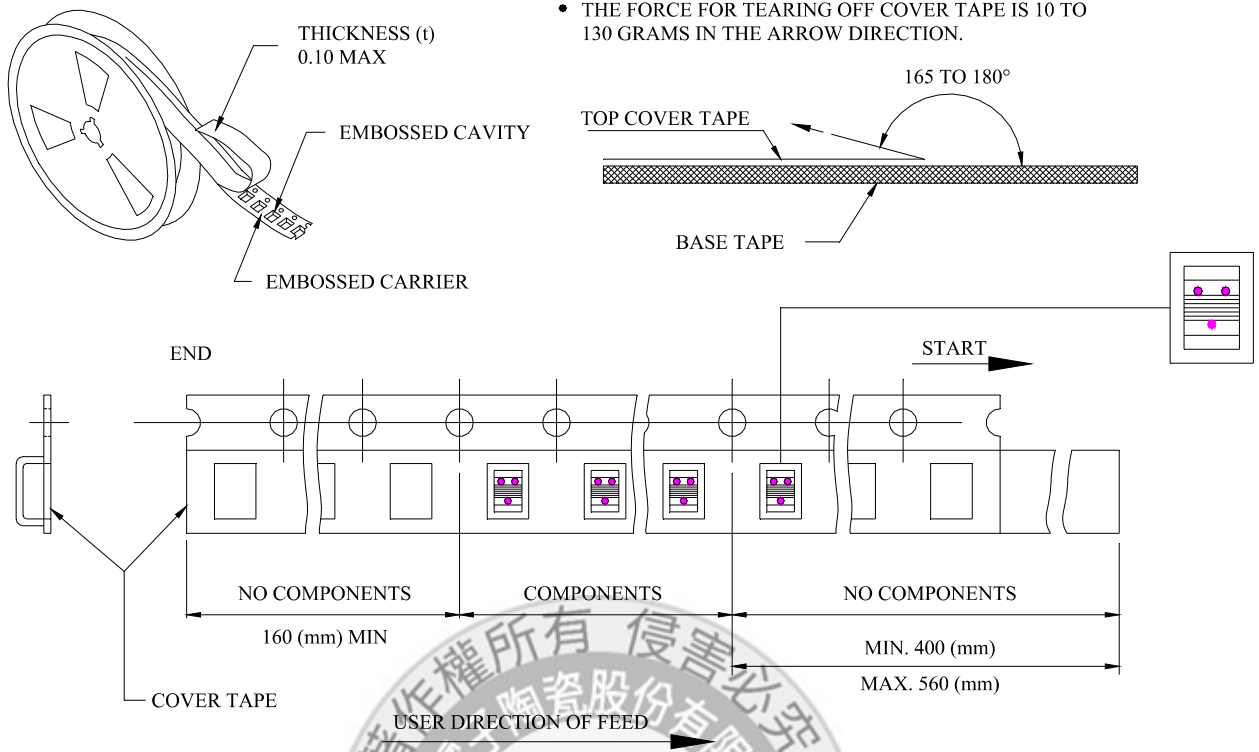
SPECIFICATION FOR APPROVAL

11. TYPICAL RoHS REFLOW PROFILE



SPECIFICATION FOR APPROVAL

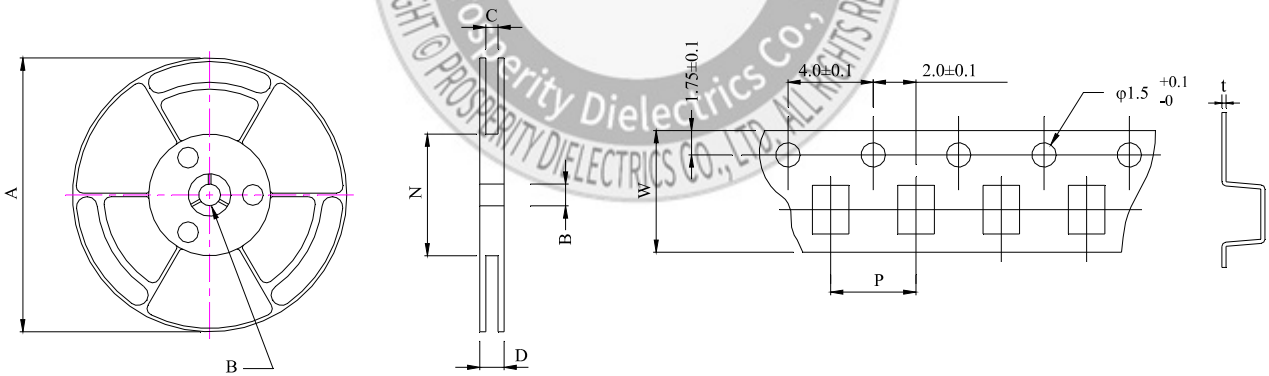
12. PACKING



■ CARRIER TAPE REELS (mm)

MATERIAL: PLASTIC

■ DIMENSIONS OF CARRIER TAPE (mm)

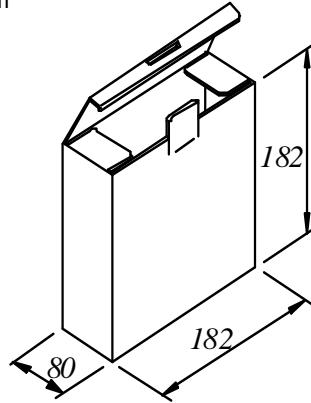


UNIT: mm

	A	B	C	D	N	P	W	t
DIM.	178	13.0	8.4	12.5	50	4.0	8.0	0.26
TOL.	±2.0	±0.8	-	-	MIN	±0.1	±0.2	±0.05

SPECIFICATION FOR APPROVAL

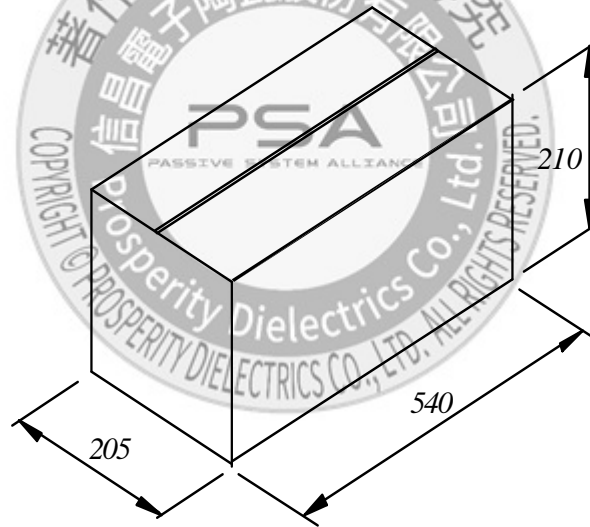
UNIT: mm



CONSTRUCTION:

A BOX CONTAINS 5 REELS

QTY: 2000/REEL
10000/BOX



TOTAL QTY: 60,000 PCS/CARTON