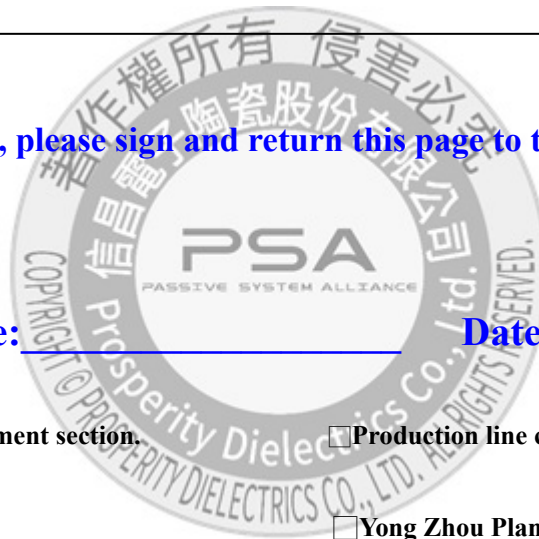


# SPECIFICATION FOR APPROVAL

CUSTOMER	_____
CUST. PART NO.	_____
CUST. DOC. REV.	_____
DESCRIPTION	SMD POWER CHOKE(RoHS+H.F.)
SAMPLE LOT NO.	_____
PART NO.	CSN084F-XXXX-LRH
DOC. REV.	ORIG
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.  
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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

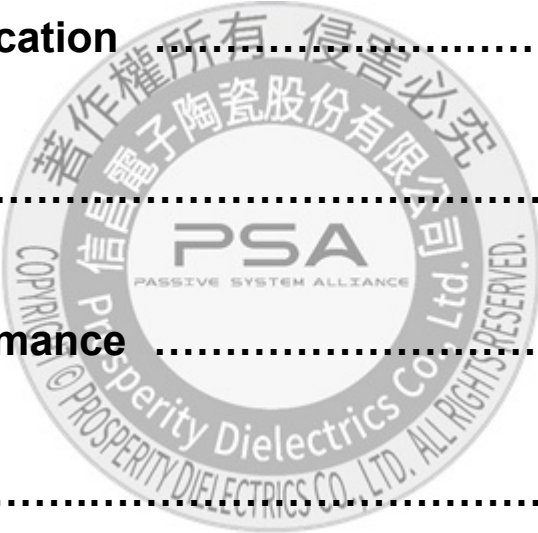
TESTED BY	CHECKED BY	APPROVED BY

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# SPECIFICATION FOR APPROVAL

CUSTOMER	CUSTOMER P/N	REV. -	SPL. LOT NO.	
PART NAME <b>SMD POWER CHOKE (RoHS+H.F.)</b>	PART NO. <b>CSN084F-XXXX-LRH</b>	REV. <b>ORIG</b>	DATE OF ISSUE	Q'TY <b>0 PCS</b>

## ENGINEERING CHANGE NOTICE – RECORD

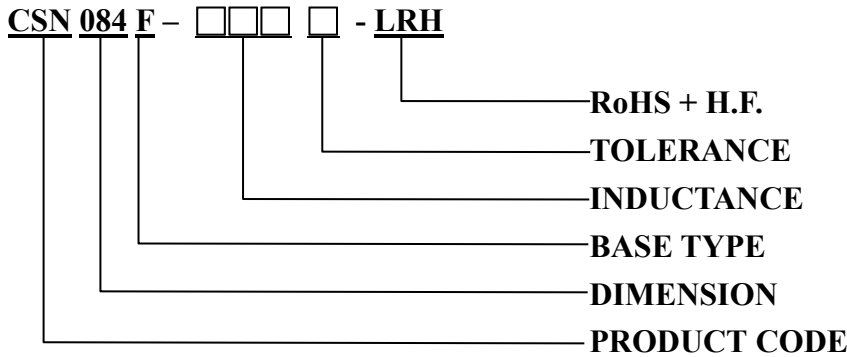
REVISION NO.	REVISION DESCRIPTION	AUTHOR	DATE	REMARK
<b>ORIG</b>		<i>Tieqiao Gong</i>		



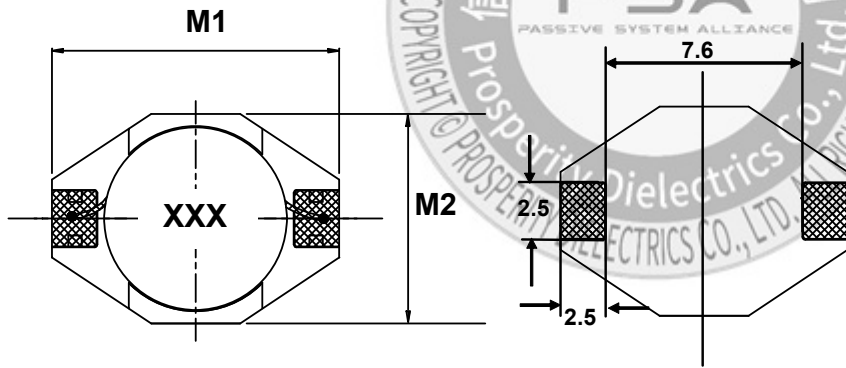
# SPECIFICATION FOR APPROVAL

※This is a RoHS and REACH compliant product whose related documents are available on request.  
 ※Graphic is only for dimensionally application.

## 1. PART NUMBERING : PRODUCT IDENTIFICATION

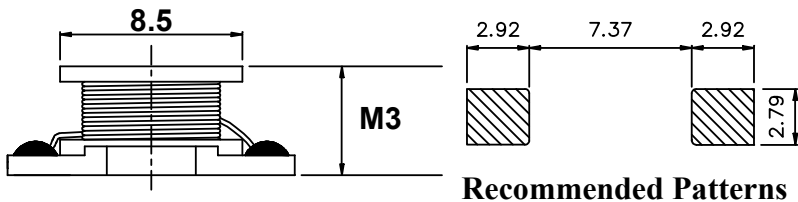


## 2. MECHANICAL DIMENSION



UNIT: mm

	DIM.	TOL.
M1	12.95	MAX.
M2	9.40	MAX.
M3	5.21	MAX.



# SPECIFICATION FOR APPROVAL

## 3. ELECTRICAL SPECIFICATION

Part number	Marking	Inductance (uH)	Test Frequency (KHz)	DC Resistance ( $\Omega$ ) MAX.	I sat (A)	Rated Current (A)
CSN084F-1R0M-LRH	1R0	1.0	100	0.009	9.00	6.80
CSN084F-1R5M-LRH	1R5	1.5	100	0.010	8.00	6.40
CSN084F-2R2M-LRH	2R2	2.2	100	0.012	7.00	6.10
CSN084F-3R3M-LRH	3R3	3.3	100	0.015	6.40	5.40
CSN084F-4R7M-LRH	4R7	4.7	100	0.018	5.40	4.80
CSN084F-6R8M-LRH	6R8	6.8	100	0.027	4.60	4.40
CSN084F-100M-LRH	100	10.0	100	0.038	3.80	3.90
CSN084F-150M-LRH	150	15.0	100	0.046	3.00	3.10
CSN084F-220M-LRH	220	22.0	100	0.085	2.60	2.70
CSN084F-330M-LRH	330	33.0	100	0.100	2.00	2.10
CSN084F-470M-LRH	470	47.0	100	0.140	1.60	1.80
CSN084F-680M-LRH	680	68.0	100	0.200	1.40	1.50
CSN084F-101M-LRH	101	100.0	100	0.280	1.20	1.30
CSN084F-151M-LRH	151	150.0	100	0.400	1.00	1.00
CSN084F-221M-LRH	221	220.0	100	0.610	0.80	0.80
CSN084F-331M-LRH	331	330.0	100	1.020	0.60	0.60
CSN084F-471M-LRH	471	470.0	100	1.270	0.50	0.50
CSN084F-681M-LRH	681	680.0	100	2.020	0.40	0.40
CSN084F-102M-LRH	102	1000.0	100	3.000	0.30	0.30
CSN084F-152M-LRH	152	1500.0	100	5.000	0.25	0.25

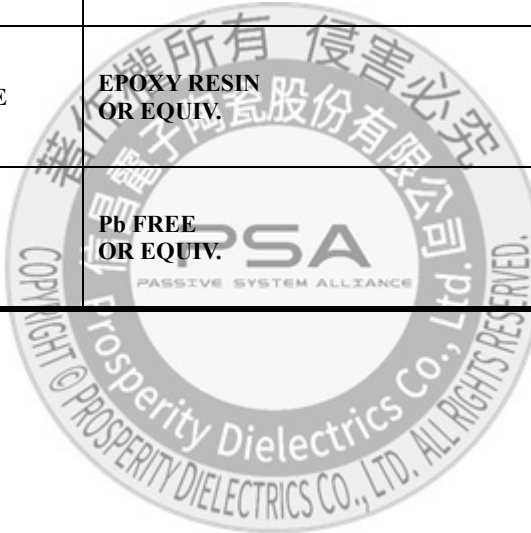
**NOTE:**

1. Tolerance: M:  $\pm 20\%$
2. Operating temperature range:  $-25^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ .
3. Storage temperature range:  $-25^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .
4. Inductance measured using the HP4284A LCR meter, CHROMA1320 & 3302.
5. DCR measured using the 16502 milli-ohm meter.
6. Inductance drops no more than 10 % of initial value at Isat , temperature rises  $\Delta t < 40^{\circ}\text{C}$  at rated current.
7. MSL: Level 1

# SPECIFICATION FOR APPROVAL

## 4. MATERIAL LIST

ITEM	MATERIAL CATEGORY	MATERIAL TYPE	SGS NO.	UL NO.
a	WIRE	SOLDERABLE ENAMELED COPPER WIRE. OR EQUIV.	CE/2019/B1280	E174837
b	CORE	FERRITE OR EQUIV.		
c	BASE	LCP OR EWUIV.		E54705
d	CLIP	METAL OR EQUIV.		
e	ADHESIVE	EPOXY RESIN OR EQUIV.		
f	SOLDER	Pb FREE OR EQUIV.		



# SPECIFICATION FOR APPROVAL

## 5. RELIABILITY PERFORMANCE

### Reliability Experiment For Electrical

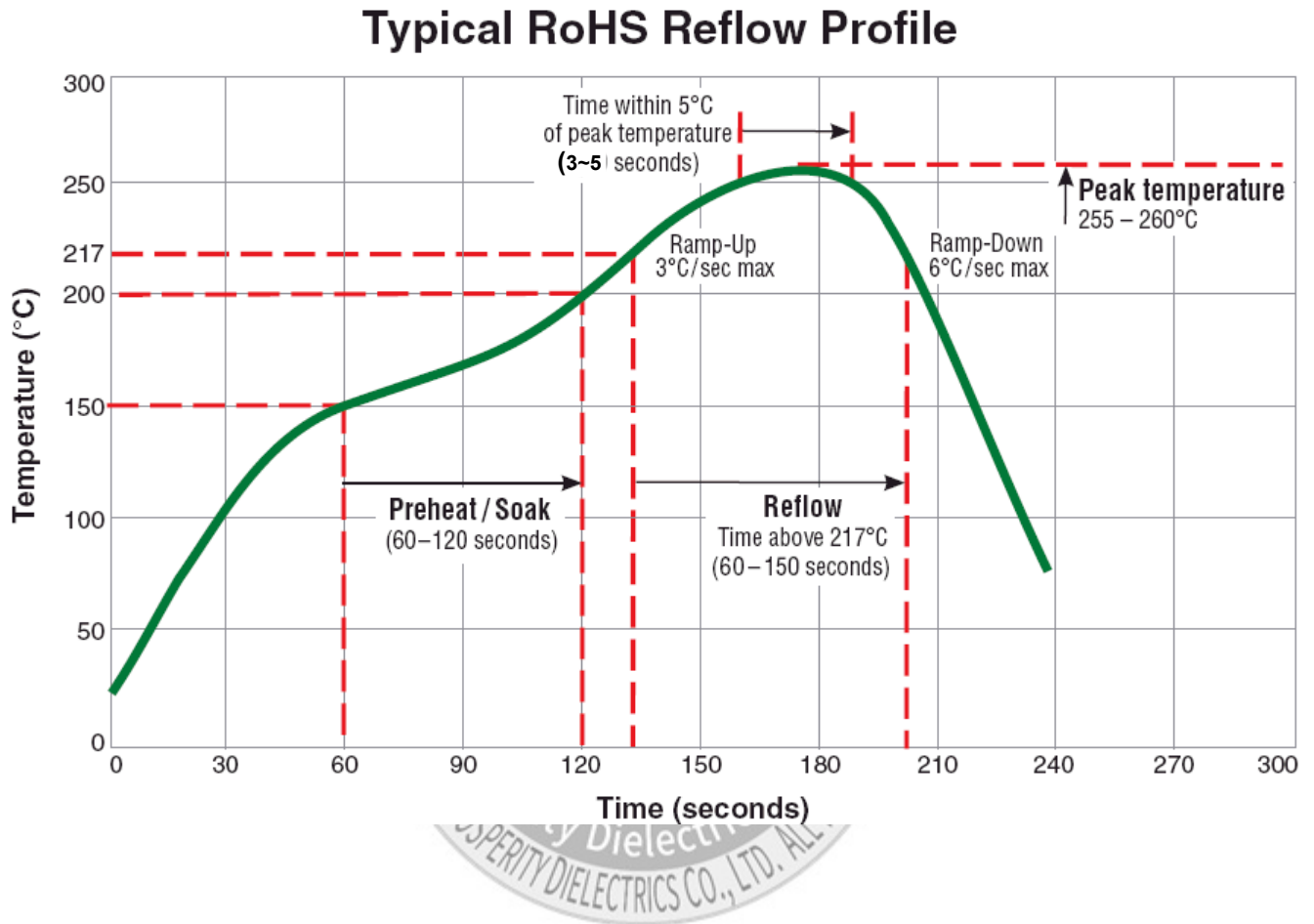
Test Item	Accept criteria	Test Condition	Standard Source
Humidity Test	1.Change from an initial value L:within±5% 2.no visible damage.	+40°C± 2°C, humidity of 90% ±5% (total 96 hours).	MIL-STD-202G Method 103B Test Condition B
High Temperature Test	1.Change from an initial value L:within±5% 2.no visible 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

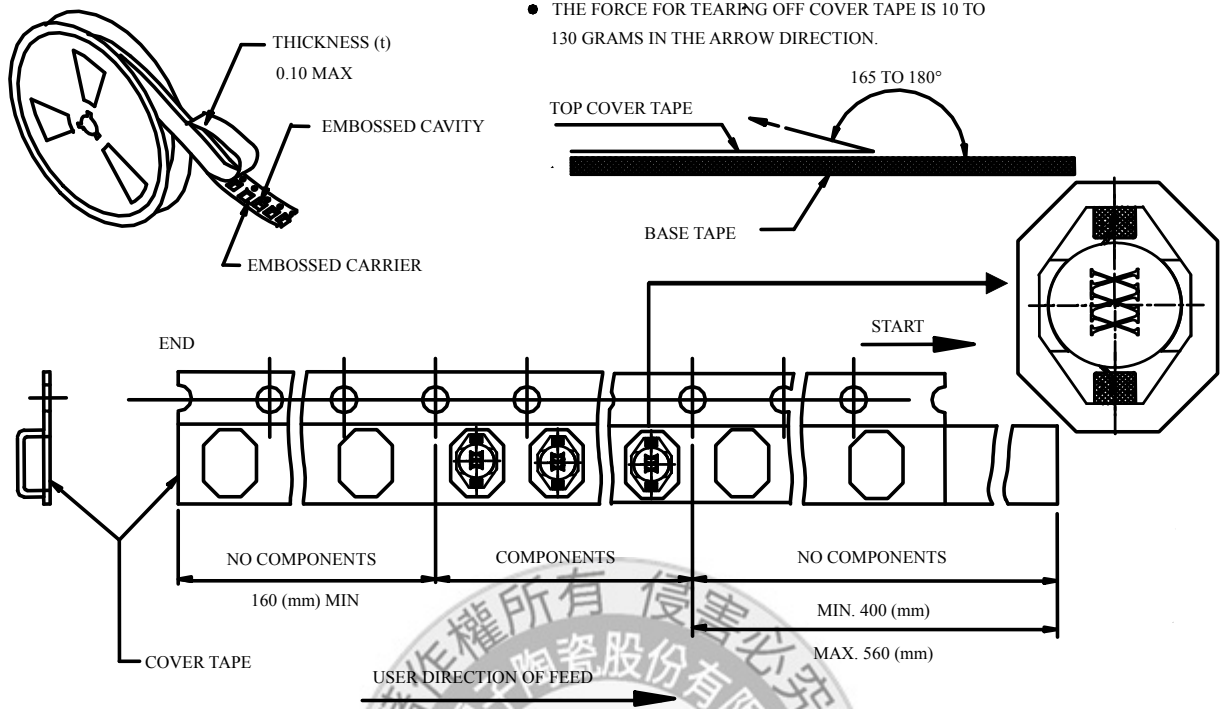
## 6. TYPICAL RoHS REFLOW PROFILE





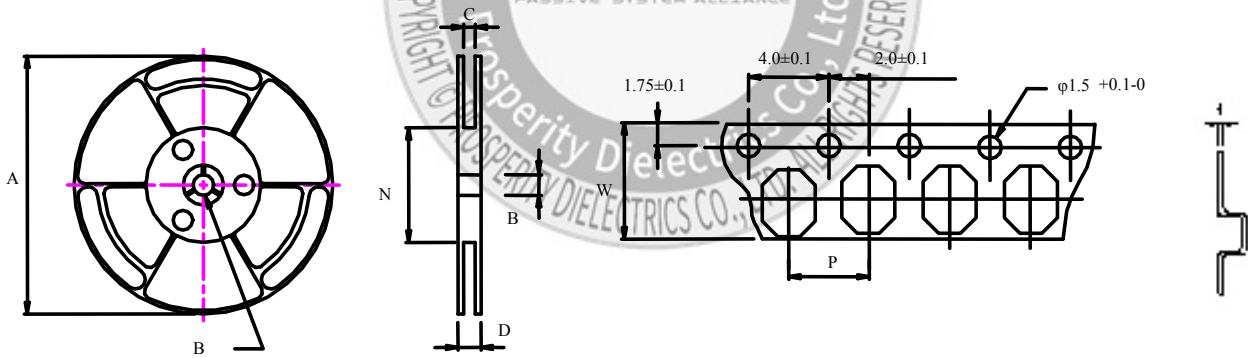
# SPECIFICATION FOR APPROVAL

## 7. PACKING



■ CARRIER TAPE REELS (mm)  
MATERIAL: PLASTIC

■ DIMENSIONS OF CARRIER TAPE (mm)

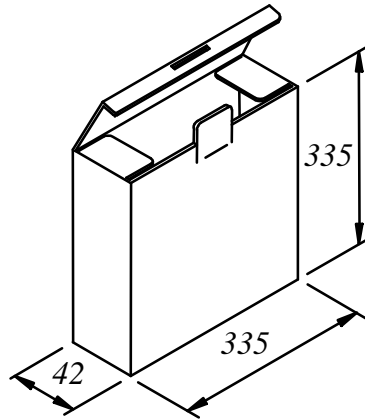


UNIT: mm

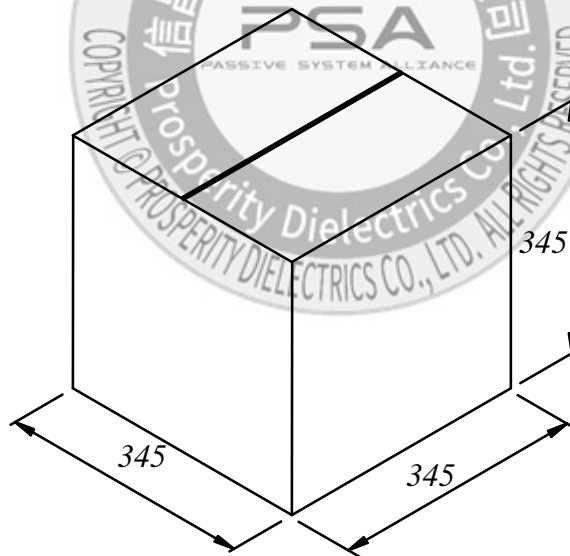
	A	B	C	N	D	P	W	t
DIM.	340	13.0	24.5	100	30.4	16.0	24.0	0.35
TOL.	MAX	±0.5	+3/-0	REF	MAX	±0.1	±0.3	±0.05

# SPECIFICATION FOR APPROVAL

UNIT : mm



- CONSTRUCTION:  
THE CASE CONTAINS 1-24mm WIDE CARRIER TAPES.  
Q'TY : 750 / REEL



TOTAL Q'TY : 6,000 PCS