

SPECIFICATION FOR APPROVAL

CUSTOMER	ROPLA
CUST. PART NO.	CSS125P-XXXX-LRH
CUST. DOC. REV.	
DESCRIPTION	POWER CHOKE(RoHS+H.F.)
SAMPLE LOT NO.	S201907-0086
PART NO.	CSS125P-XXXX-LRH
DOC. REV.	ORIG
DATE	2019/7/17

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.

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TESTED BY	CHECKED BY	APPROVED BY
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CUSTOMER ROPLA	CUSTOMER P/N CSS125P-XXXX-LRH	REV. -	SPL. LOT NO. S201907-0086	
PART NAME POWER CHOKE (RoHS+H.F.)	PART NO. CSS125P-XXXX-LRH	REV. ORIG	DATE OF ISSUE 2019/7/17	Q'TY 0 PCS

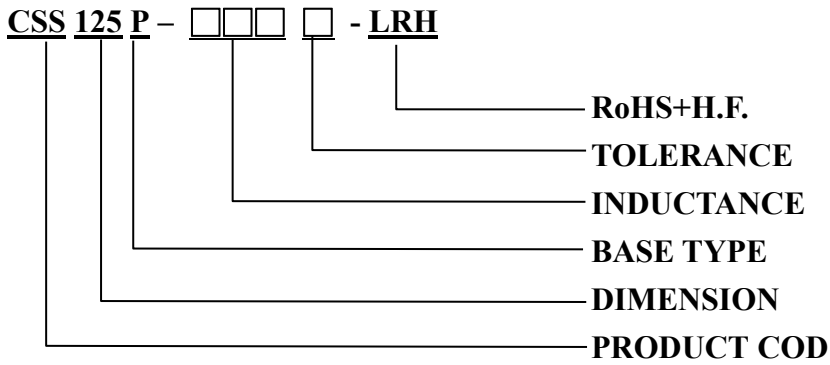
ENGINEERING CHANGE NOTICE – RECORD

REVISION NO.	REVISION DESCRIPTION	AUTHOR	DATE	REMARK
ORIG		<i>Tieqiao Gong</i>	2019/7/17	

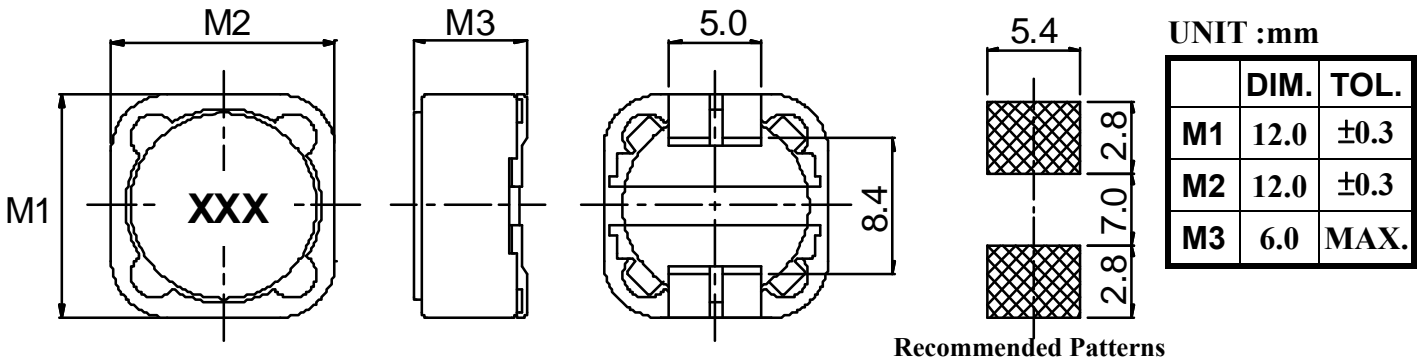
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※This is a RoHS and REACH compliant product whose related documents are available on request.
 ※Graphic is only for dimensionally application.

1. PART NUMBERING : PRODUCT IDENTIFICATION



2. MECHANICAL DIMENSION



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3. ELECTRICAL

PART NO.	MARKING	Inductance (uH)	TEST FREQ. (KHz)	DCR (Ω) Max.	Rated Current (A)
CSS125P-1R3N-LRH	1R3	1.3+30%,-20%	100	0.012	8.00
CSS125P-2R1N-LRH	2R1	2.1+30%,-20%	100	0.014	7.00
CSS125P-3R1N-LRH	3R1	3.1+30%,-20%	100	0.017	6.00
CSS125P-4R4N-LRH	4R4	4.4+30%,-20%	100	0.020	5.00
CSS125P-5R8N-LRH	5R8	5.8+30%,-20%	100	0.021	4.40
CSS125P-7R5N-LRH	7R5	7.5+30%,-20%	100	0.024	4.20
CSS125P-100M-LRH	100	10±20%	1	0.025	4.00
CSS125P-120M-LRH	120	12±20%	1	0.027	3.50
CSS125P-150M-LRH	150	15±20%	1	0.030	3.30
CSS125P-180M-LRH	180	18±20%	1	0.034	3.00
CSS125P-220M-LRH	220	22±20%	1	0.036	2.80
CSS125P-270M-LRH	270	27±20%	1	0.051	2.30
CSS125P-330M-LRH	330	33±20%	1	0.057	2.10
CSS125P-390M-LRH	390	39±20%	1	0.068	2.00
CSS125P-470M-LRH	470	47±20%	1	0.075	1.80
CSS125P-560M-LRH	560	56±20%	1	0.110	1.70
CSS125P-680M-LRH	680	68±20%	1	0.120	1.50
CSS125P-820M-LRH	820	82±20%	1	0.140	1.40
CSS125P-101M-LRH	101	100±20%	1	0.160	1.30
CSS125P-121M-LRH	121	120±20%	1	0.170	1.10
CSS125P-151M-LRH	151	150±20%	1	0.230	1.00
CSS125P-181M-LRH	181	180±20%	1	0.290	0.90
CSS125P-221M-LRH	221	220±20%	1	0.400	0.80
CSS125P-271M-LRH	271	270±20%	1	0.460	0.75
CSS125P-331M-LRH	331	330±20%	1	0.510	0.68
CSS125P-391M-LRH	391	390±20%	1	0.690	0.65
CSS125P-471M-LRH	471	470±20%	1	0.770	0.58
CSS125P-561M-LRH	561	560±20%	1	0.860	0.54
CSS125P-681M-LRH	681	680±20%	1	1.200	0.48
CSS125P-821M-LRH	821	820±20%	1	1.340	0.43
CSS125P-102M-LRH	102	1000±20%	1	1.530	0.40

a. Tolerance : N:±30%, M : ±20%.

b. Operating Temp : -25°C to +105°C.

c. Inductance measured using the HP4284A LCR meter, CHROMA1320 & 3302. & 16502

d. DCR measured using the 502BC milli-ohm meter.

e. Inductance drops no more than 25 % of initial value at rated current, temperature rises $\Delta t < 40^{\circ}\text{C}$.

※ MSL : LEVEL 1

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4. MATERIAL LIST

ITEM	PART	DESCRIPTION	RATING	SGS NO.	UL NO.
a	WIRE	SOLDERABLE ENAMELED COPPER WIRE. OR EQUIV.	155°C	CE/2016/B1646	E174837
b	CORE	FERRITE OR EQUIV.			
c	CLIP	METAL OR EQUIV.			
d	EPOXY	EPOXY RESIN OR EQUIV.			
e	SOLDER	Pb FREE OR EQUIV.			

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5. RELIABILITY PERFORMANCE

Reliability Experiment For Electrical

Test Item	Test Condition	Standard Source
Humidity Test	+40°C±2°C, humidity of 90% ± 5% (total 96 hours).	MIL-STD-202G Method 103B Test Condition B
High Temperature Test	1.Temperature: +125°C±2°C. 2.Test time: 48±2hrs.	IEC 68-2 Test Condition B
Low Temperature Test	1.Temperature: -40°C±2°C. 2.Test time: 48±2hrs.	IEC 68-2 Test Condition A
Thermal Shock	+125°C±5°C (30 minutes) ~ -40 ± 5°C (30 minutes), temperature switch time: 5 minutes (total 50 cycles).	MIL-STD-202G Method 107G Test Condition B-2
Life Test	+70°C±5°C (250Hours).	MIL-STD-202G Method 108A Test Condition B

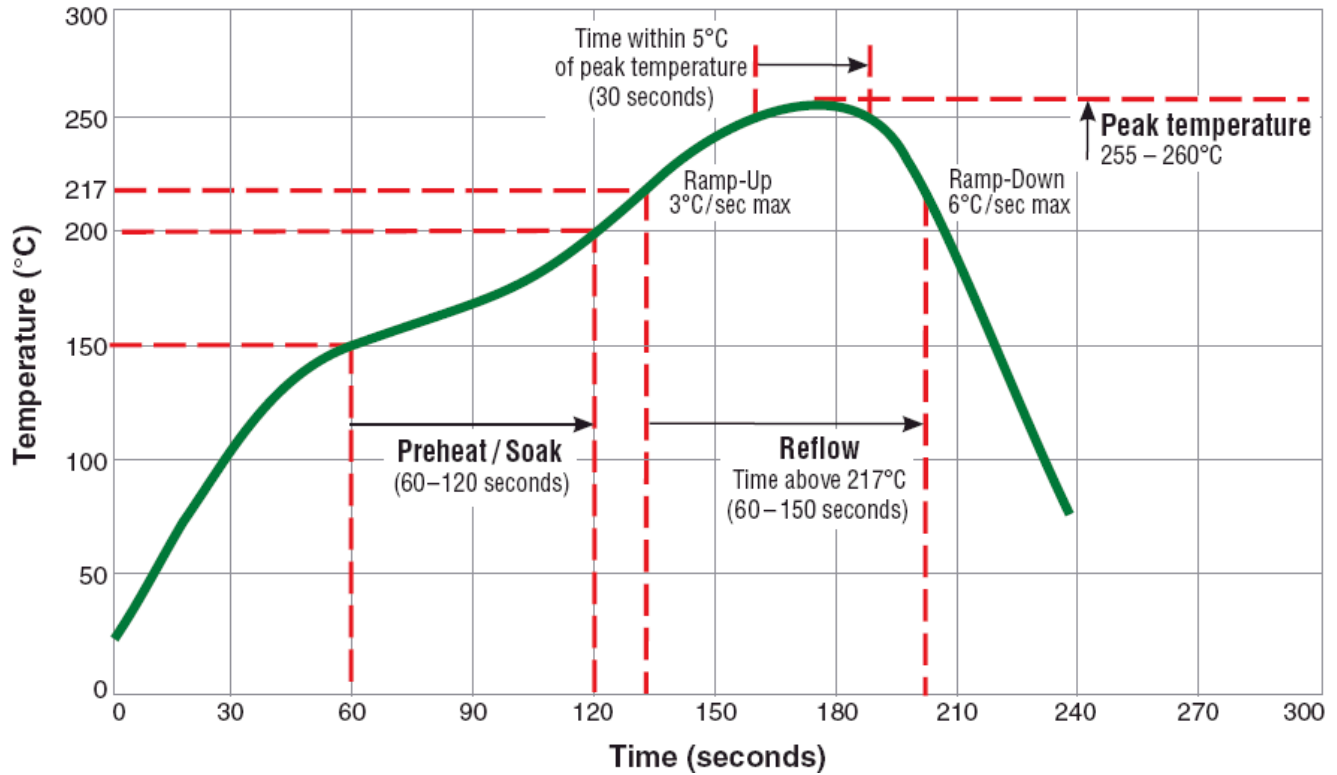
Reliability Experiment For Physical

Test Item	Test Condition	Standard Source
Vibration Test	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	IR/convection reflow:Peak Temp 260±5°C for 30 Sec. in air, Through 2 Cycle. Temperature Ramp:+1~4°C/sec; Above 217°C, must keep 90 s - 120 s.	J-STD-020D Classification Reflow Profiles
Solder Ability Test	Soak in 245°C solder pot of 5 Sec., PAD must have 95% above coverage.	J-STD-002C

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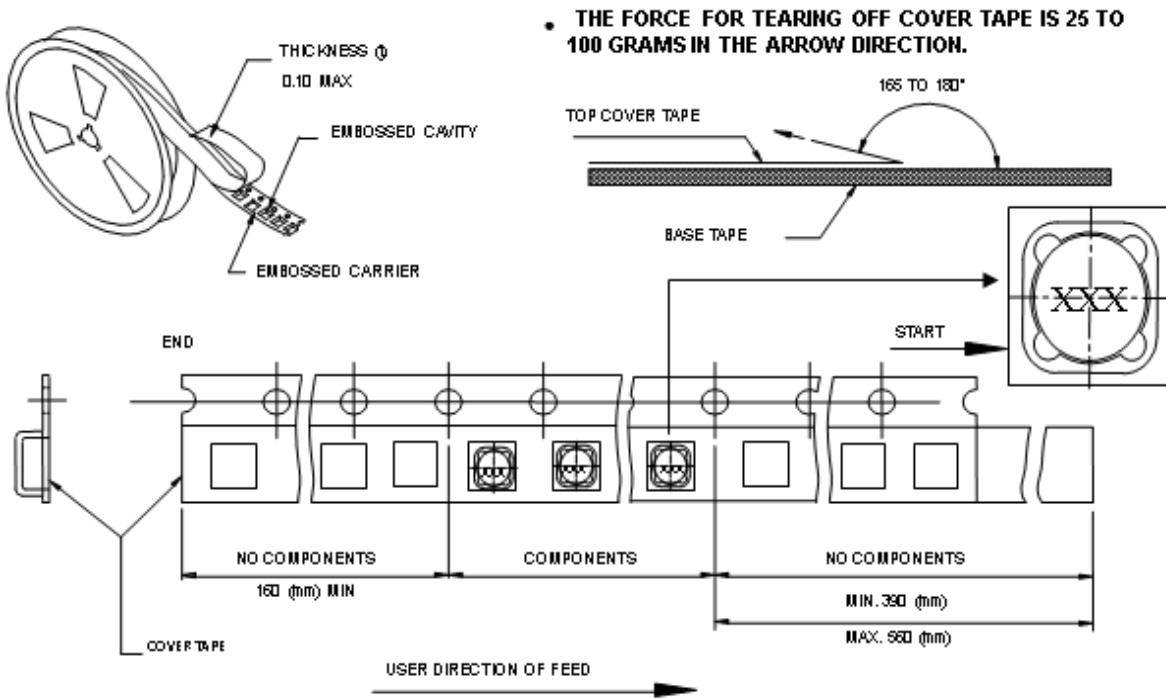
6. TYPICAL RoHS REFLOW PROFILE

Typical RoHS Reflow Profile



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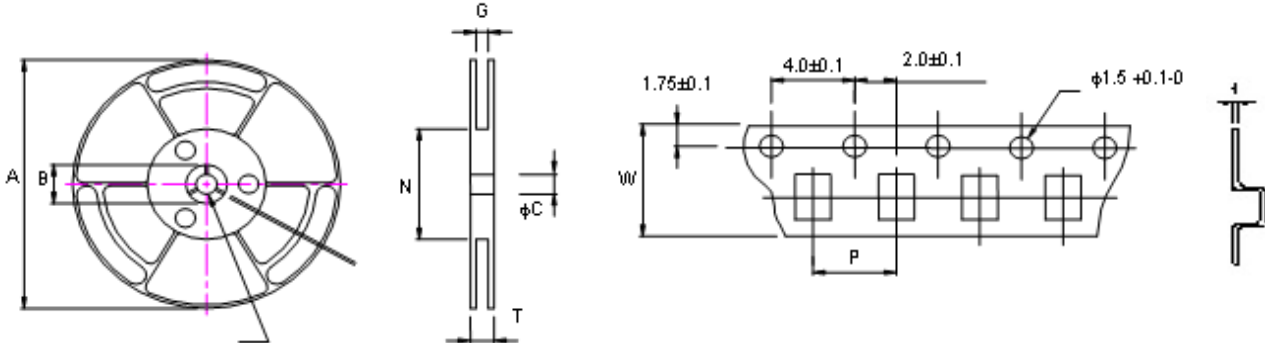
7. PACKAGING



■ CARRIER TAPE REELS (mm)

MATERIAL: PLASTIC

■ DIMENSIONS OF CARRIER TAPE (mm)

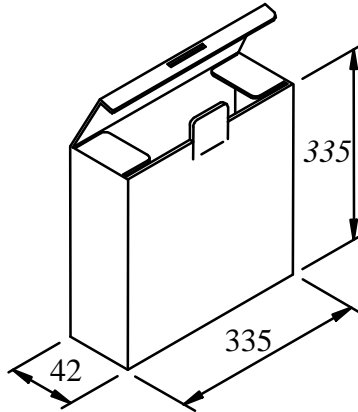


UNIT : mm

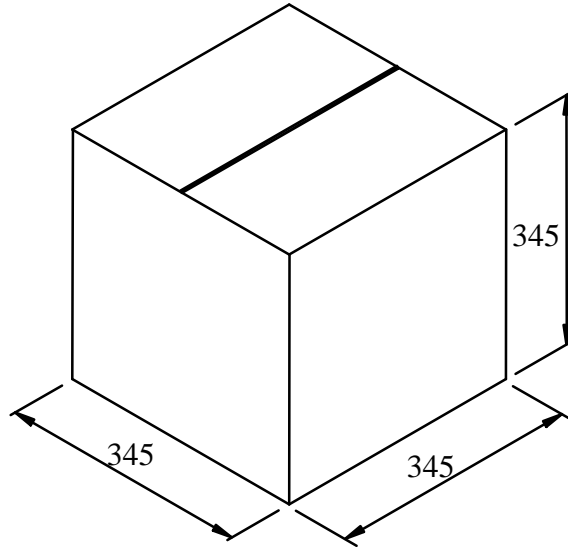
	A	B	C	G	N	P	T	W	t
DIM	340	20.2	13.0	25.0	100	16.0	30.5	24.0	0.35
TOL.	MAX	MIN	± 0.5	+1-0.5	REF.	± 0.1	MAX	± 0.3	± 0.05

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UNIT : mm



- CONSTRUCTION:
THE CASE CONTAINS 1-24mm WIDE CARRIER TAPES.
QTY : 500 / REEL



TOTAL QTY :4,000PCS