

SPECIFICATION FOR APPROVAL

CUSTOMER	_____
CUST. PART NO.	_____
CUST. DOC. REV.	_____
DESCRIPTION	SMD POWER CHOKE (ROHS+H.F.)
SAMPLE LOT NO.	_____
PART NO.	CSM0645D-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.

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TESTED BY	CHECKED BY	APPROVED BY

PROSPERITY DIELECTRICS CO., LTD.



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SPECIFICATION FOR APPROVAL

CUSTOMER	CUSTOMER P/N	REV. -	SPL. LOT NO.	
PART NAME SMD POWER CHOKE (ROHS+H.F.)	PART NO. CSM0645D-XXXX-LRH	REV. ORIG	DATE OF ISSUE	Q'TY 0 PCS

ENGINEERING CHANGE NOTICE – RECORD

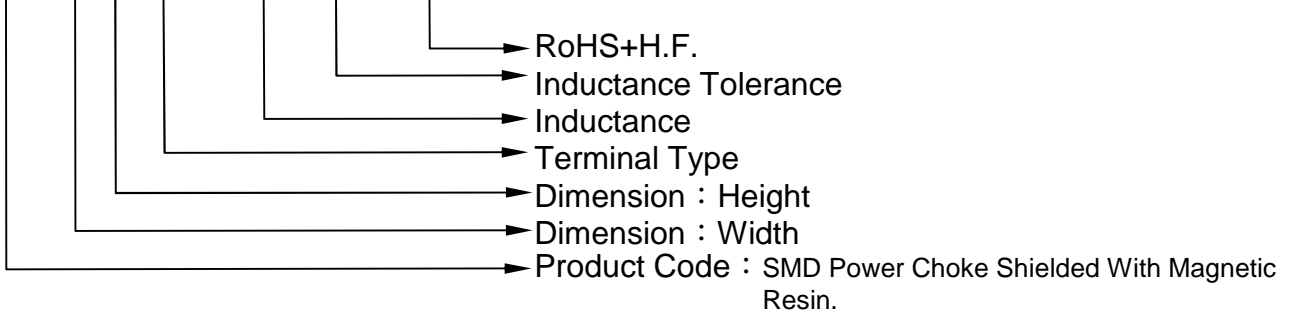
REVISION NO.	REVISION DESCRIPTION	AUTHOR	DATE	REMARK
ORIG		<i>Chunyan Wang</i>		

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

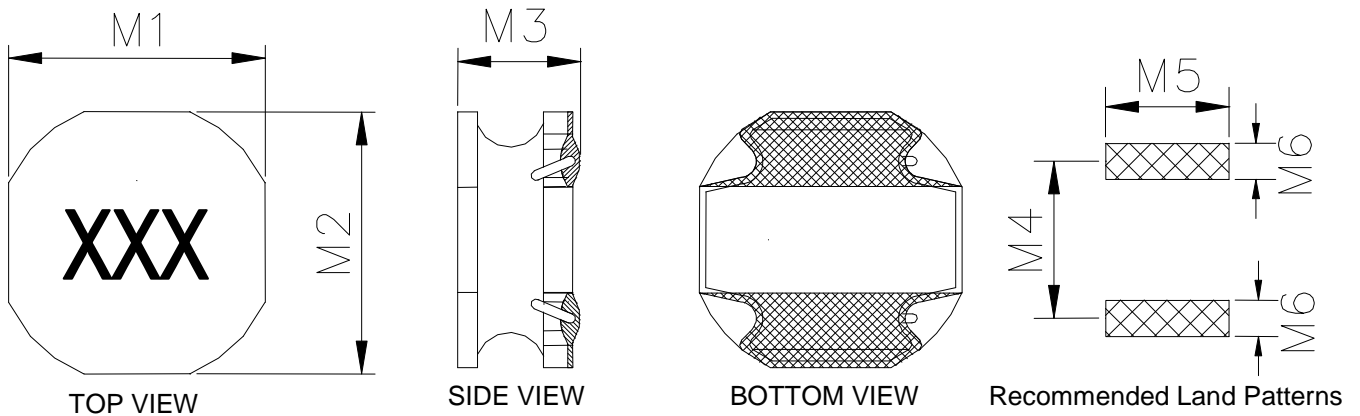
★SCOPE: THIS SPECIFICATION APPLIES TO COATED RESIN CHOKE.

1. PART NUMBER IDENTIFICATION

CSM 06 45 D - □□□□ - □□□□

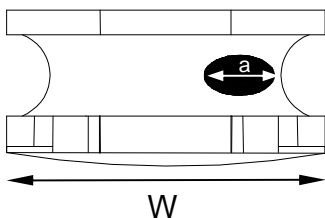


2. MECHANICAL DIMENSIONS: (Unit: mm)



ITEM	M1	M2	M3	M4	M5	M6
DIM.	6.0	5.9	4.5	4.7	5.7	1.6
TOL.	±0.2	±0.2	MAX.	-	-	-

※Void appearance tolerance limit:



$a \leq W/3$ Good

$a > W/3$ NG

3. ELECTRICAL SPECIFICATIONS:

PART NO.	MARK	Inductance (μ H)	DCR (m Ω)	Isat (A)	Irms (A)	TOL.
CSM0645D-1R0N-LRH	1R0	1.0	18.2	8.50	6.00	$\pm 30\%$
CSM0645D-1R3N-LRH	1R3	1.3	20.8	8.00	5.20	
CSM0645D-1R5N-LRH	1R5	1.5	23.4	8.00	5.00	
CSM0645D-1R8N-LRH	1R8	1.8	23.4	7.00	5.00	
CSM0645D-2R2N-LRH	2R2	2.2	27.3	6.00	4.50	
CSM0645D-2R3N-LRH	2R3	2.3	27.3	6.00	4.50	
CSM0645D-3R0N-LRH	3R0	3.0	31.2	5.00	4.00	
CSM0645D-3R3N-LRH	3R3	3.3	31.2	5.00	3.20	
CSM0645D-4R5M-LRH	4R5	4.5	40.3	4.00	3.70	$\pm 20\%$
CSM0645D-4R7M-LRH	4R7	4.7	40.3	4.00	3.70	
CSM0645D-6R3M-LRH	6R3	6.3	49.4	3.80	3.50	
CSM0645D-6R8M-LRH	6R8	6.8	49.4	3.80	3.50	
CSM0645D-100M-LRH	100	10	61.1	3.00	2.80	
CSM0645D-150M-LRH	150	15	100.1	2.30	2.30	
CSM0645D-220M-LRH	220	22	149.5	1.90	1.70	
CSM0645D-330M-LRH	330	33	188.5	1.50	1.50	
CSM0645D-470M-LRH	470	47	286.0	1.30	1.30	
CSM0645D-680M-LRH	680	68	429.0	1.00	1.00	
CSM0645D-820M-LRH	820	82	533.0	0.90	0.90	
CSM0645D-101M-LRH	101	100	650.0	0.80	0.80	

1. Test Frequency: 100KHz ,1V

2. Test Equipment:

L: CHROMA-3302+1320+16502 or equivalent.

SRF: HP-4291B or equivalent.

RDC: CH16502BC or equivalent.

3. Isat: Based on inductance decrease 30% Max.(at 20 $^{\circ}$ C)

4. Irms: Based on temperature increase 40 $^{\circ}$ C Max.(at 20 $^{\circ}$ C)

5. Operating temperature range: -25 $^{\circ}$ C to +120 $^{\circ}$ C (Including self-temperature rise)

6. Storage temp.: -40 $^{\circ}$ C to +85 $^{\circ}$ C

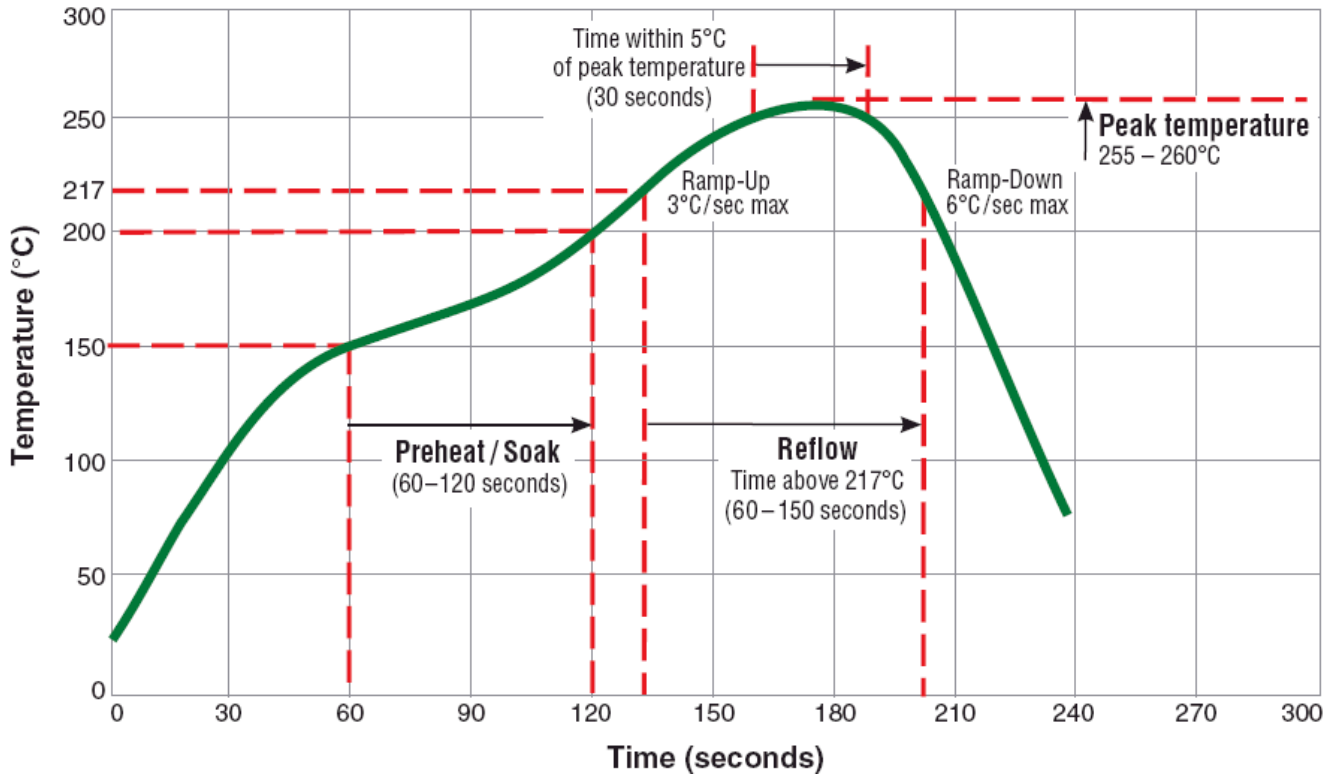
7. MSL : LEVEL 1

4. RELIABILITY PERFORMANCE

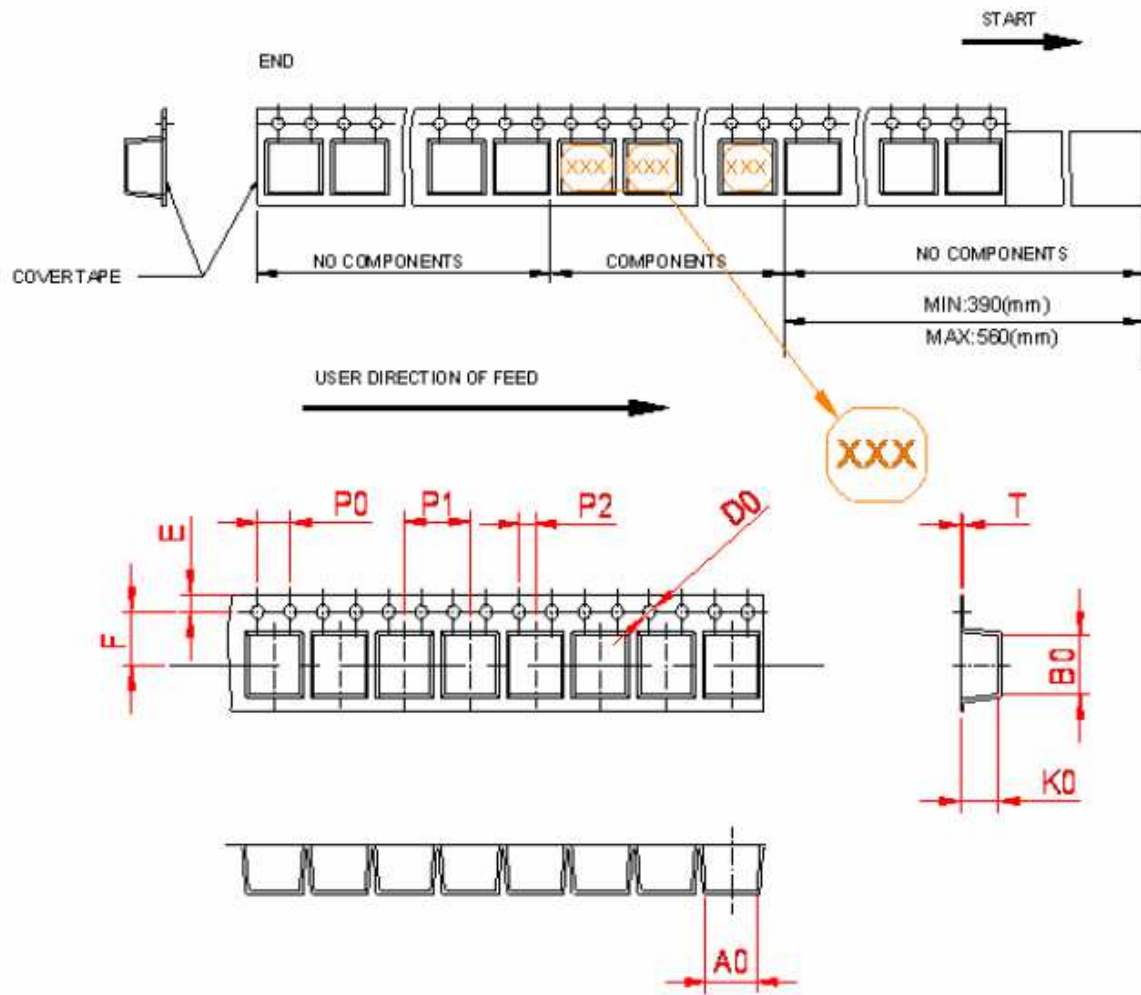
Test Item	Test Condition	Standard Source
Humidity Test	+40°C ± 2°C, humidity of 90% ± 5% (total 96 hours).	MIL-STD-202G Method 103B Test Condition B
High Temperature Test	1. Temperature: +125°C ± 2°C 2. Test time: 48 ± 2 hrs	IEC 68-2 Test Condition B
Low Temperature Test	1. Temperature: -40°C ± 2°C 2. Test time: 48 ± 2 hrs	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 (300 Hours)	MIL-STD-202G Method 108A Test Condition D
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	Reflow: Keep 250 ± 5°C, 30 ± 5 Sec in air, Temperature ramp: +1~4°C/sec; Above 183°C, must keep 90 s - 120 s.	MIL-STD-202G Method 210F Test Condition (Reflow)
Solder Ability Test	Soak in 245 °C solder pot of 3Sec, PAD must have 95% above coverage.	J-STD-003B
Terminal Push Strength Test	No special requirements: 5N thrust to maintain 10 Sec.	JIS C5321:1997

5. TYPICAL RoHS REFLOW PROFILE

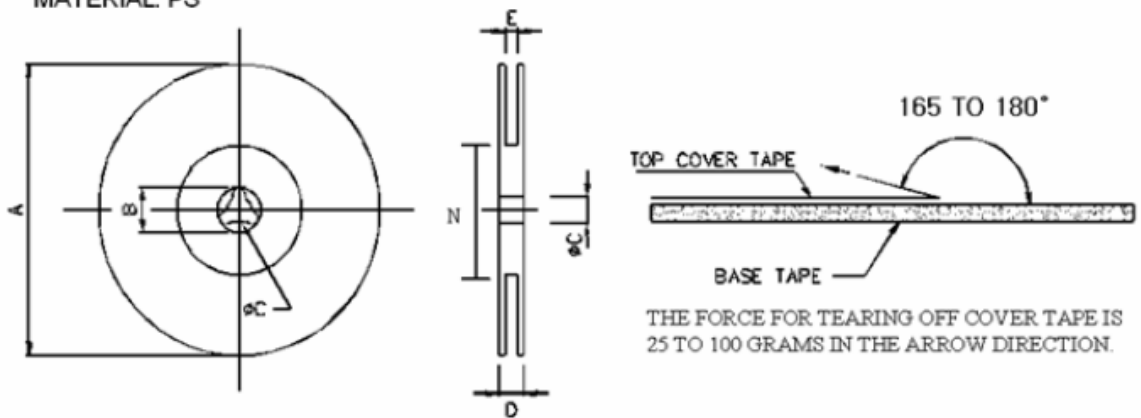
Typical RoHS Reflow Profile



6. PACKAGING



CARRIER TAPE REELS
MATERIAL: PS



SPECIFICATION FOR APPROVAL

Product Series	W	E	F	D0	P0	P1	P2	T	A0	B0	K0
DIM.	12	1.75	5.5	1.5	4	8	2	0.4	6.25	6.1	4.65
TOL.	±0.30	± 0.10	±0.10	±0.10	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10

UNIT:mm

Product Series	A	B	C	D	E	N
DIM.	330	21.5	13.0	17.5	13.5	100
TOL.	±0.3	± 0.8	±0.5	±2.0	±1.0	±1.5

UNIT:mm

Reel	2Reel/box	3box/carton
Q'ty (pcs)	Q'ty (pcs)	Q'ty (pcs)
1500	3000	9000