APPROVAL SHEET

WLSS127P Series
Shielded SMD Power Inductors

*Contents in this sheet are subject to change without prior notice.

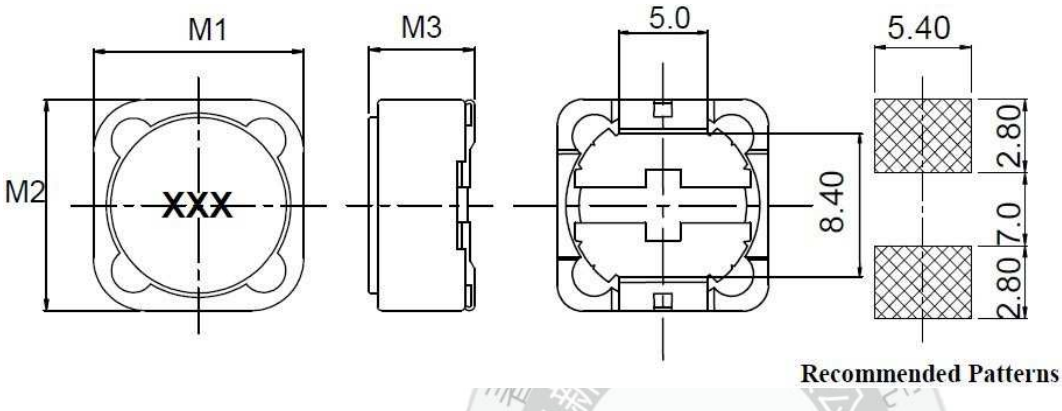
Features

1. Shielded power inductor.
2. Wide inductance range.

Applications

1. Inductor in DC/DC converter.
2. Use in STB、PDA、Notebook.

Shape and Dimension



Unit：mm

	DIM.	TOL.
M1	12.0	±0.3
M2	12.0	±0.3
M3	8.0	MAX.

Ordering Information

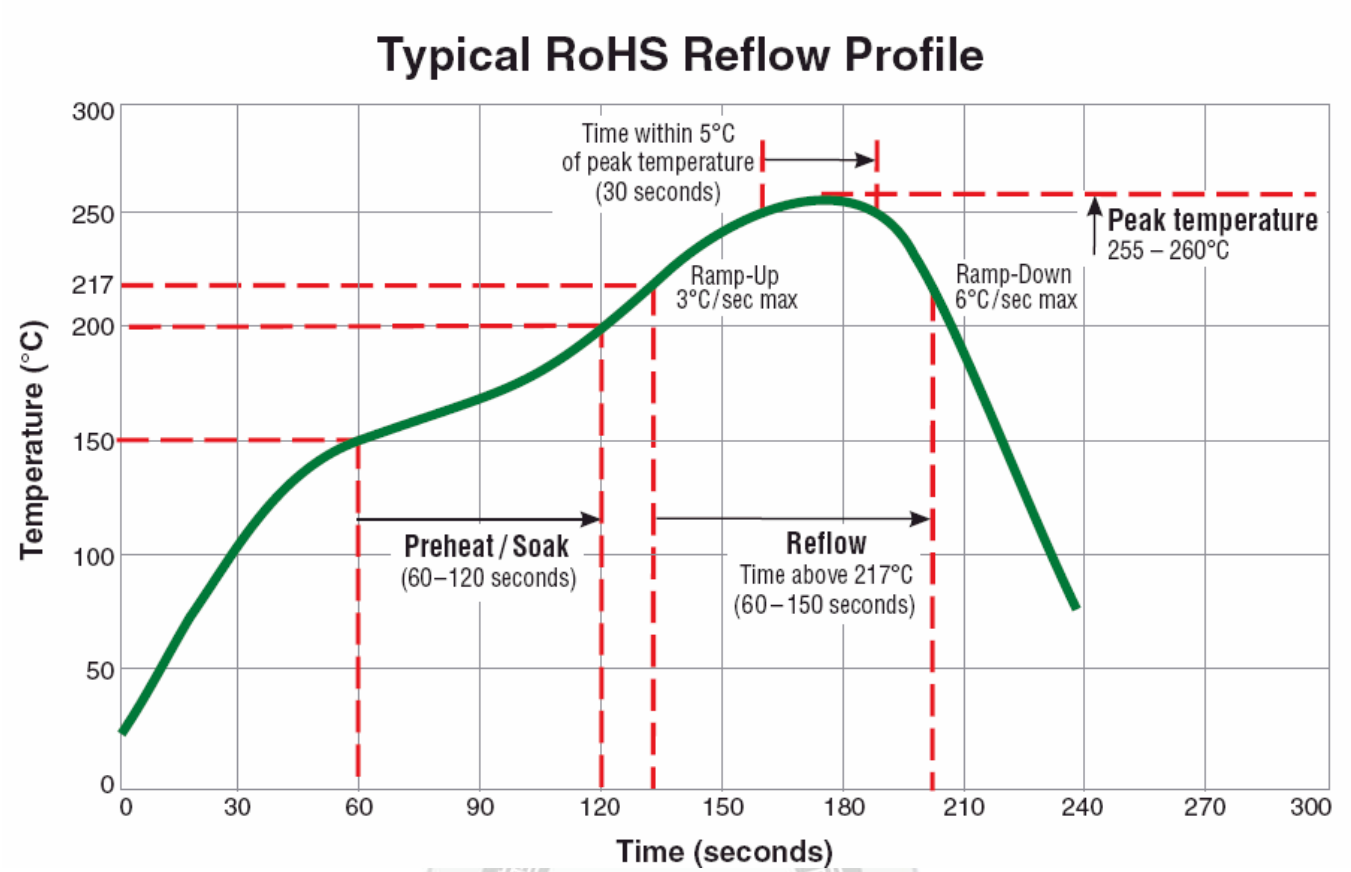
WL	SS	127P	Z0	N	1R2	L	B
Product Code	**Series**	**Dimensions**	**Series extension**	**Tolerance**	**Value**	**Packing Code**	
WL: Inductor	Shielded SMD Power Inductors	12 * 12 mm	Z0:STD	N: SPEC M: ± 20%	1R2 = 1.2uH 100 = 10.0uH 101=100uH 102=1000uH	L=13” Reeled (Embossed tape)	B:STD

Electrical Characteristics

WLSS127P Series	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (Ω) MAX.	Rated Current (A)
WLSS127PZ0N1R2LB	1R2	1.2	+40%-20%	100	0.007	9.8
WLSS127PZ0N2R4LB	2R4	2.4	+40%-20%	100	0.0115	8
WLSS127PZ0N3R5LB	3R5	3.5	+40%-20%	100	0.0135	7.5
WLSS127PZ0N4R7LB	4R7	4.7	+40%-20%	100	0.0158	6.8
WLSS127PZ0N6R1LB	6R1	6.1	+40%-20%	100	0.0176	6.6
WLSS127PZ0N7R6LB	7R6	7.6	+40%-20%	100	0.02	5.9
WLSS127PZ0M100LB	100	10	±20%	1	0.0216	5.4
WLSS127PZ0M120LB	120	12	±20%	1	0.0243	4.9
WLSS127PZ0M150LB	150	15	±20%	1	0.027	4.5
WLSS127PZ0M180LB	180	18	±20%	1	0.0392	3.9
WLSS127PZ0M220LB	220	22	±20%	1	0.0432	3.6
WLSS127PZ0M270LB	270	27	±20%	1	0.0459	3.4
WLSS127PZ0M330LB	330	33	±20%	1	0.0648	3
WLSS127PZ0M390LB	390	39	±20%	1	0.0729	2.75
WLSS127PZ0M470LB	470	47	±20%	1	0.1	2.5
WLSS127PZ0M560LB	560	56	±20%	1	0.11	2.35
WLSS127PZ0M680LB	680	68	±20%	1	0.14	2.1
WLSS127PZ0M820LB	820	82	±20%	1	0.16	1.95
WLSS127PZ0M101LB	101	100	±20%	1	0.22	1.7
WLSS127PZ0M121LB	121	120	±20%	1	0.25	1.6
WLSS127PZ0M151LB	151	150	±20%	1	0.28	1.42
WLSS127PZ0M181LB	181	180	±20%	1	0.35	1.3
WLSS127PZ0M221LB	221	220	±20%	1	0.39	1.16
WLSS127PZ0M271LB	271	270	±20%	1	0.56	1.06
WLSS127PZ0M331LB	331	330	±20%	1	0.64	0.95
WLSS127PZ0M391LB	391	390	±20%	1	0.7	0.88
WLSS127PZ0M471LB	471	470	±20%	1	0.98	0.79
WLSS127PZ0M561LB	561	560	±20%	1	1.07	0.73
WLSS127PZ0M681LB	681	680	±20%	1	1.46	0.67
WLSS127PZ0M821LB	821	820	±20%	1	1.64	0.6
WLSS127PZ0M102LB	102	1000	±20%	1	1.82	0.55

a. Tolerance：N:SPEC ,M：±20%
b. Operating Temp：-25℃ to +105℃.
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 △t< 40℃.
※MSL：LEVEL 1

TYPICAL RoHS REFLOW PROFILE



RELIABILITY PERFORMANCE

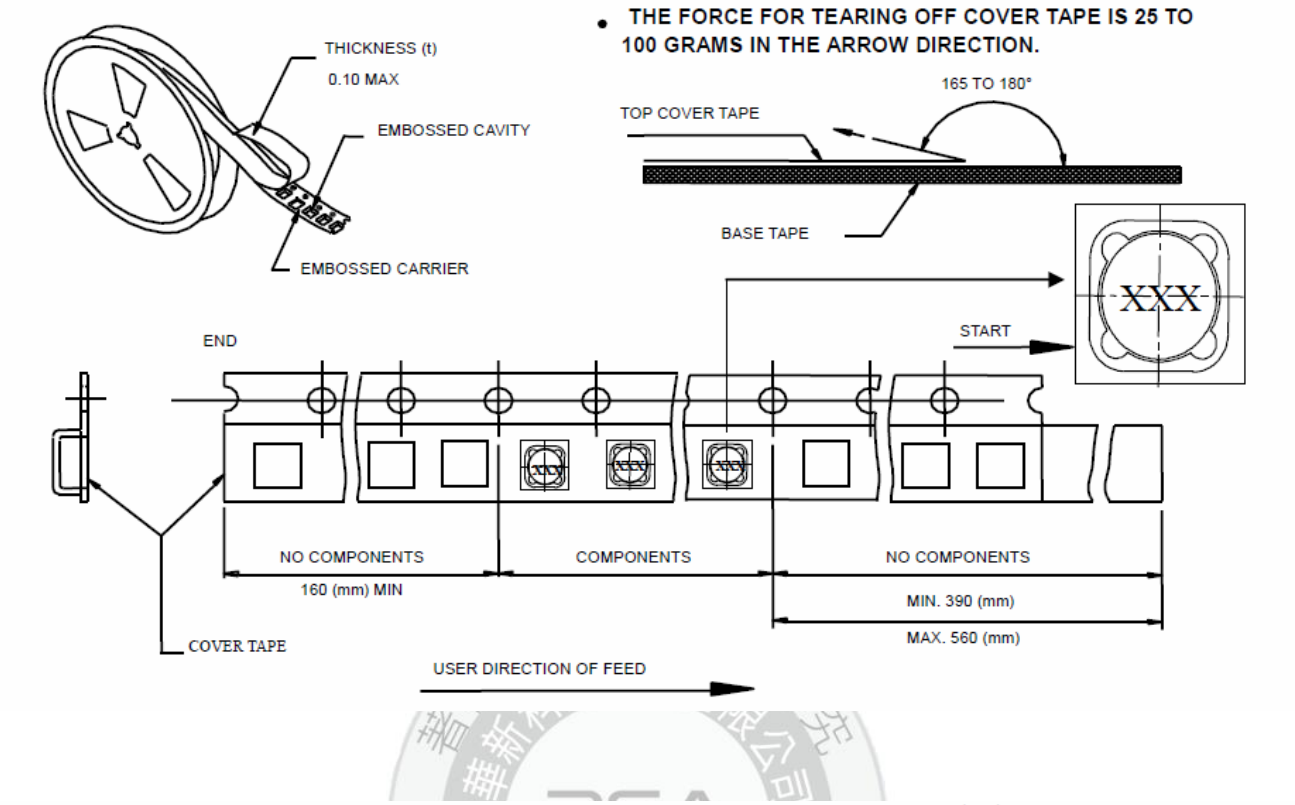
Reliability Experiment For Electrical

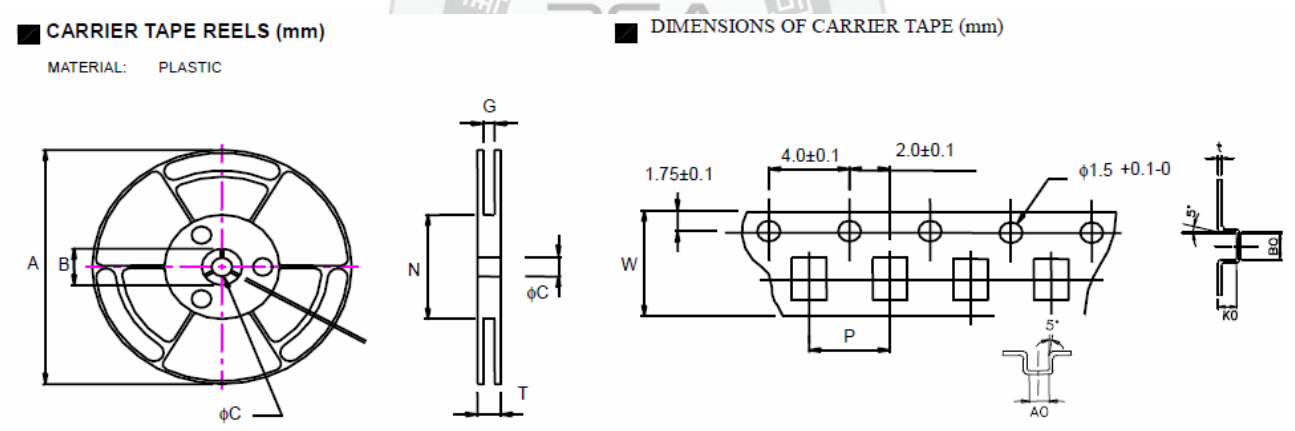
Test Item	Test Condition	Standard Source
Humidity Test	+40℃± 2℃, humidity of 90% ± 5% (total 96 hours).	MIL-STD-202G Method 103B Test Condition B
High Temperature Test	1.Temperature: +125℃±2℃ 2.Test time: 48±2hrs	IEC 68-2 Test Condition B
Low Temperature Test	1.Temperature: -40℃±2℃ 2.Test time: 48±2hrs	IEC 68-2 Test Condition A
Thermal Shock	+125℃±5℃ (30 minutes) ~ -40 ± 5℃ (30 minutes), temperature switch time: 5 minutes (total 50 cycles).	MIL-STD-202G Method 107G Test Condition B-2
Life Test	+70℃±5℃ (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 250±5℃ for 5Sec in air, Through 2 Cycle. Temperature Ramp:+1~4℃/sec; Above1 83℃, must keep 90 s - 120 s	MIL-STD-202G Method 210F Test Condition (Reflow)
Solder Ability Test	Soak in 245 ℃ solder pot of 3Sec, PAD must have 95% above coverage.	J-STD-003B

Tape & Reel Packaging Dimensions:





Unit : mm

	A	B	C	G	N	P	T	W	t	A0	B0	K0
DIM.	340	20.2	13.0	24.5	100	16.0	30.5	24.0	0.35	340	20.2	13.0
TOL.	MAX	MIN	±0.5	+1.5-0	±0.3	±1.0	MAX	±0.3	±0.05	MAX	MIN	±0.5

Quantity per reel：500 pcs