APPROVAL SHEET



WLSS124P Series
Shielded SMD Power Inductors

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Features

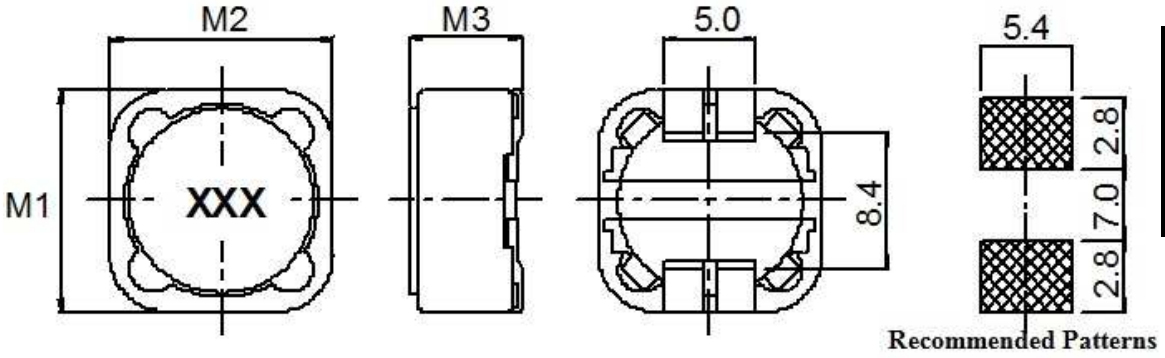
1. Shielded power inductor.
2. Wide inductance range.

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	4.8	MAX.

Ordering Information

WL	SS	124P	Z0	M	3R9	L	B
Product Code	**Series**	**Dimensions**	**Series extension**	**Tolerance**	**Value**	**Packing Code**	
WL: Inductor	Shielded SMD Power Inductors	12 * 12 mm	Z0:STD	M: ± 20%	3R9 = 3.9uH 100 = 10.0uH 101 =100uH	L=13" Reeled (Embossed tape)	B:STD

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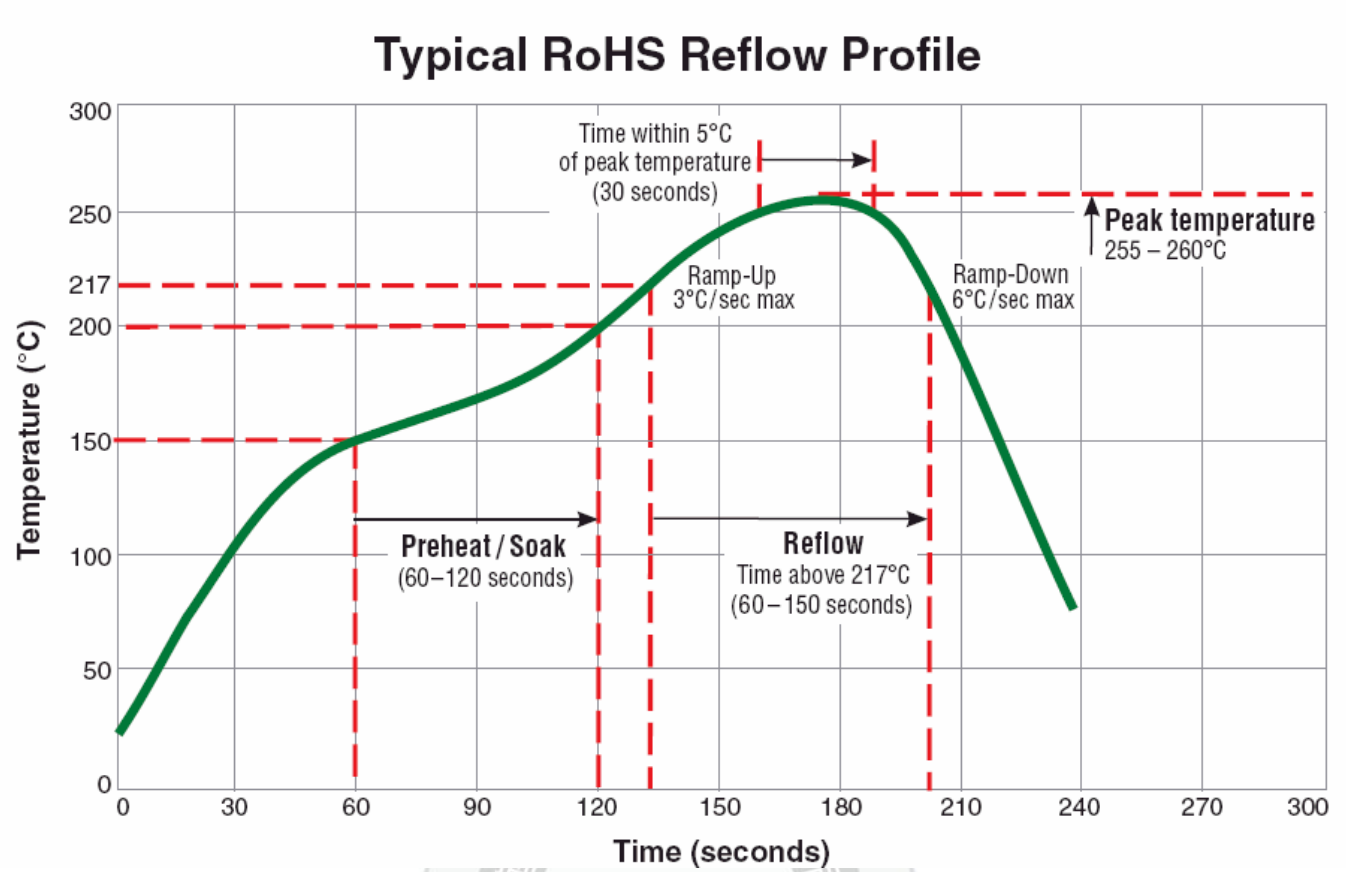
Electrical Characteristics

WLSS124P Series	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (mΩ) MAX.	Rated Current (A)
WLSS124PZ0M3R9LB	3R9	3.9	±20%	100	15	6.50
WLSS124PZ0M4R7LB	4R7	4.7	±20%	100	18	5.70
WLSS124PZ0M6R8LB	6R8	6.8	±20%	100	23	4.90
WLSS124PZ0M8R2LB	8R2	8.2	±20%	100	26	4.60
WLSS124PZ0M100LB	100	10	±20%	100	28	4.50
WLSS124PZ0M120LB	120	12	±20%	100	38	4.00
WLSS124PZ0M150LB	150	15	±20%	100	50	3.20
WLSS124PZ0M180LB	180	18	±20%	100	57	3.10
WLSS124PZ0M220LB	220	22	±20%	100	66	2.90
WLSS124PZ0M270LB	270	27	±20%	100	80	2.80
WLSS124PZ0M330LB	330	33	±20%	100	97	2.70
WLSS124PZ0M390LB	390	39	±20%	100	132	2.10
WLSS124PZ0M470LB	470	47	±20%	100	150	1.90
WLSS124PZ0M560LB	560	56	±20%	100	190	1.80
WLSS124PZ0M680LB	680	68	±20%	100	220	1.50
WLSS124PZ0M820LB	820	82	±20%	100	260	1.30
WLSS124PZ0M101LB	101	100	±20%	100	308	1.20
WLSS124PZ0M121LB	121	120	±20%	100	380	1.10
WLSS124PZ0M151LB	151	150	±20%	100	530	0.95
WLSS124PZ0M181LB	181	180	±20%	100	620	0.85
WLSS124PZ0M221LB	221	220	±20%	100	700	0.80
WLSS124PZ0M271LB	271	270	±20%	100	870	0.60
WLSS124PZ0M331LB	331	330	±20%	100	990	0.50

a. Tolerance： 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

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TYPICAL RoHS REFLOW PROFILE



PSA
PASSIVE SYSTEM ALLIANCE
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RELIABILITY PERFORMANCE

Reliability Experiment For Electrical

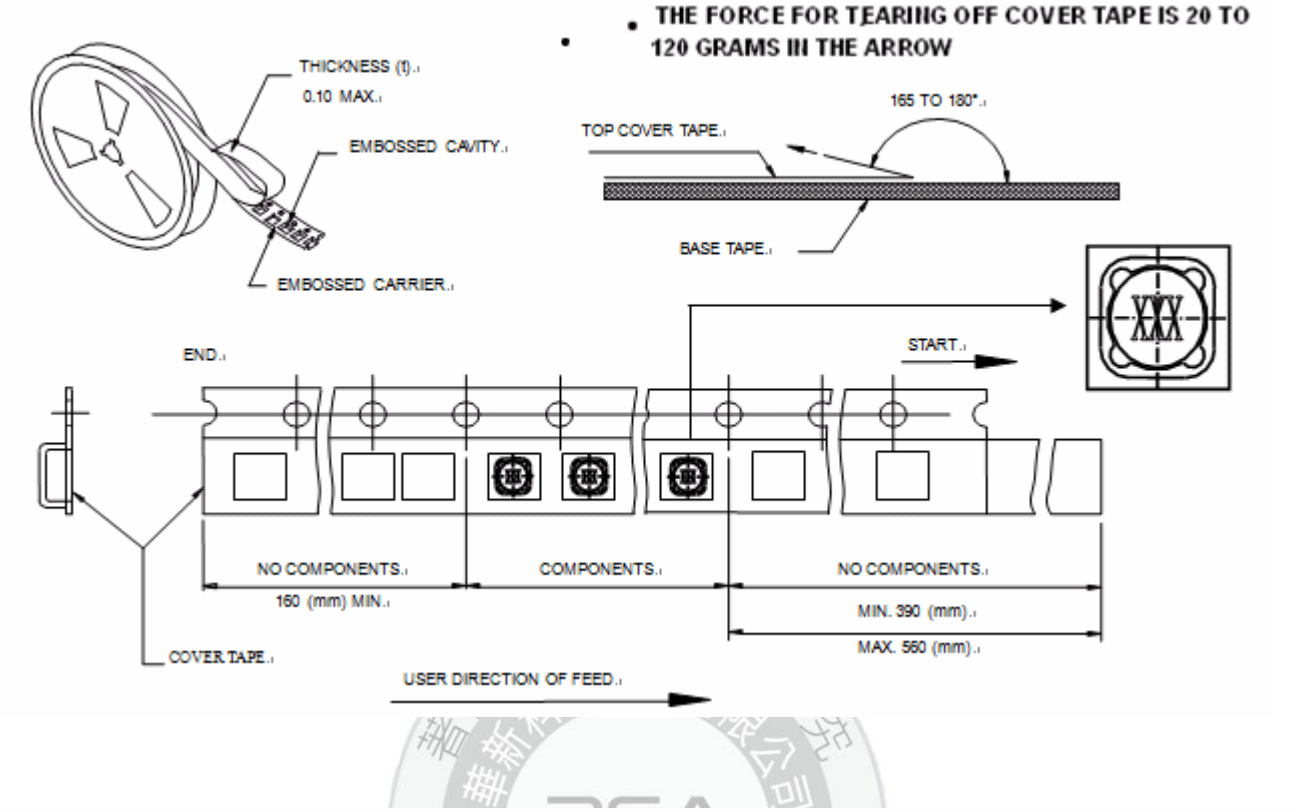
Test Item	Test Condition	Standard Source
Humidity Test	+40℃± 2℃, humidity of 90% ± 5% (total 96 hours).	MIL-STD-202G Method 103B Test Condition B
High Temperature Test	1.Temperature: +125℃±2℃ 2.Test time: 48±2hrs	IEC 68-2 Test Condition B
Low Temperature Test	1.Temperature: -40℃±2℃ 2.Test time: 48±2hrs	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

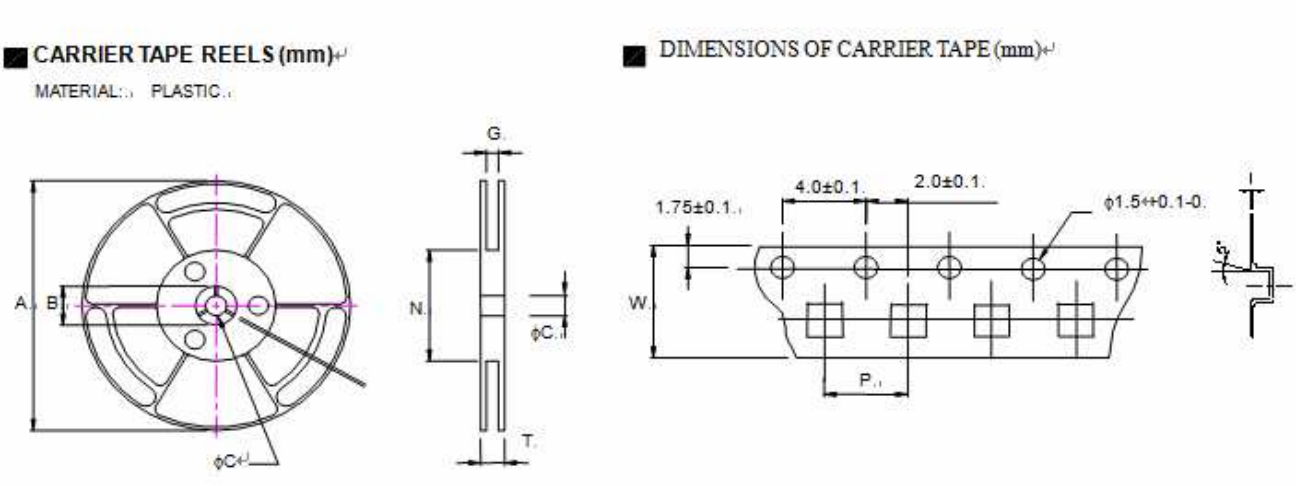
Reliability Experiment For Physical

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

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Tape & Reel Packaging Dimensions:





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	+1.0-0.5	±0.3	±0.1	MAX	±0.3	±0.05

Quantity per reel：750 pcs

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