APPROVAL SHEET

著作權所有 侵害必究
PSA
Walsin Technology Corporation
COPYRIGHT © WALSIN TECHNOLOGY CORPORATION. ALL RIGHTS RESERVED

WLSN032D Series
SMD Unshielded Power Inductors

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

Copyright © by Walsin Technology Corporation. | All rights reserved.

Features

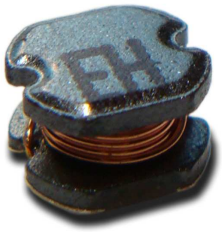
1. Unshielded power inductor.
2. Wide inductance range.

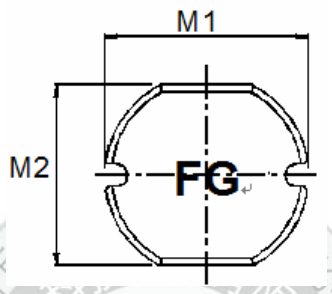
Applications

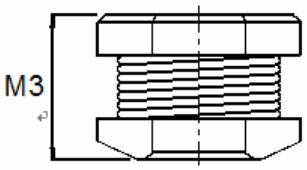
1. Inductor in DC/DC converter.
2. Use in STB、Notebook、Radio、LCDs 、other electrical devices.

Shape and Dimension

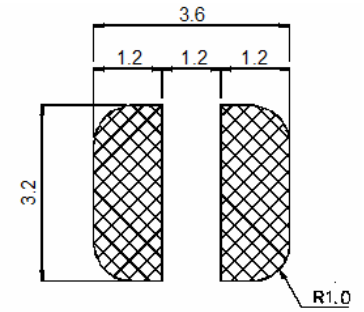
Unit: mm







	DIM.	TOL.
M1	3.3	±0.3
M2	3.0	±0.3
M3	2.1	±0.3



Ordering Information

WL	SN	032D	Z0	M	1R0	P	B
Product Code WL: Inductor	**Series** SMD Unshielded Power Inductors	**Dimensions** 3.3 * 3.0 mm	**Series extension** Z0:STD	**Tolerance** M: ± 20%	**Value** 1R0 = 1.0uH 100 = 10.0uH	**Packing Code** P=7" Reeled (Embossed tape)	B:STD

Copyright © by Walsin Technology Corporation. | All rights reserved.

Electrical Characteristics

WLSN032D Series	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (Ω) MAX.	Rated Current (A)
WLSN032DZ0M1R0PB	BA	1.0	± 20%	100	0.07	2.080
WLSN032DZ0M1R4PB	BC	1.4	± 20%	100	0.09	1.860
WLSN032DZ0M1R8PB	BE	1.8	± 20%	100	0.11	1.800
WLSN032DZ0M2R2PB	CC	2.2	± 20%	100	0.13	1.390
WLSN032DZ0M2R7PB	CH	2.7	± 20%	100	0.14	1.320
WLSN032DZ0M3R3PB	DD	3.3	± 20%	100	0.20	1.250
WLSN032DZ0M3R9PB	DJ	3.9	± 20%	100	0.21	1.200
WLSN032DZ0M4R7PB	EH	4.7	± 20%	100	0.33	1.030
WLSN032DZ0M5R6PB	FG	5.6	± 20%	100	0.35	0.910
WLSN032DZ0M6R8PB	GI	6.8	± 20%	100	0.38	0.850
WLSN032DZ0M8R2PB	IC	8.2	± 20%	100	0.43	0.820
WLSN032DZ0M100PB	KA	10	± 20%	100	0.50	0.740
WLSN032DZ0M120PB	QA	12	± 20%	100	0.65	0.640
WLSN032DZ0M150PB	MA	15	± 20%	100	0.82	0.600
WLSN032DZ0M180PB	RA	18	± 20%	100	0.90	0.540
WLSN032DZ0M220PB	LA	22	± 20%	100	1.14	0.500
WLSN032DZ0M270PB	SA	27	± 20%	100	1.39	0.430
WLSN032DZ0M330PB	NA	33	± 20%	100	1.55	0.400
WLSN032DZ0M390PB	PA	39	± 20%	100	2.15	0.370
WLSN032DZ0M470PB	OA	47	± 20%	100	2.44	0.360
WLSN032DZ0M560PB	UA	56	± 20%	100	2.68	0.310
WLSN032DZ0M680PB	VA	68	± 20%	100	3.05	0.300
WLSN032DZ0M820PB	XA	82	± 20%	100	3.48	0.280
WLSN032DZ0M221PB	LB	220	± 20%	100	6.30	0.200
WLSN032DZ0M471PB	OB	470	± 20%	100	14.00	0.090

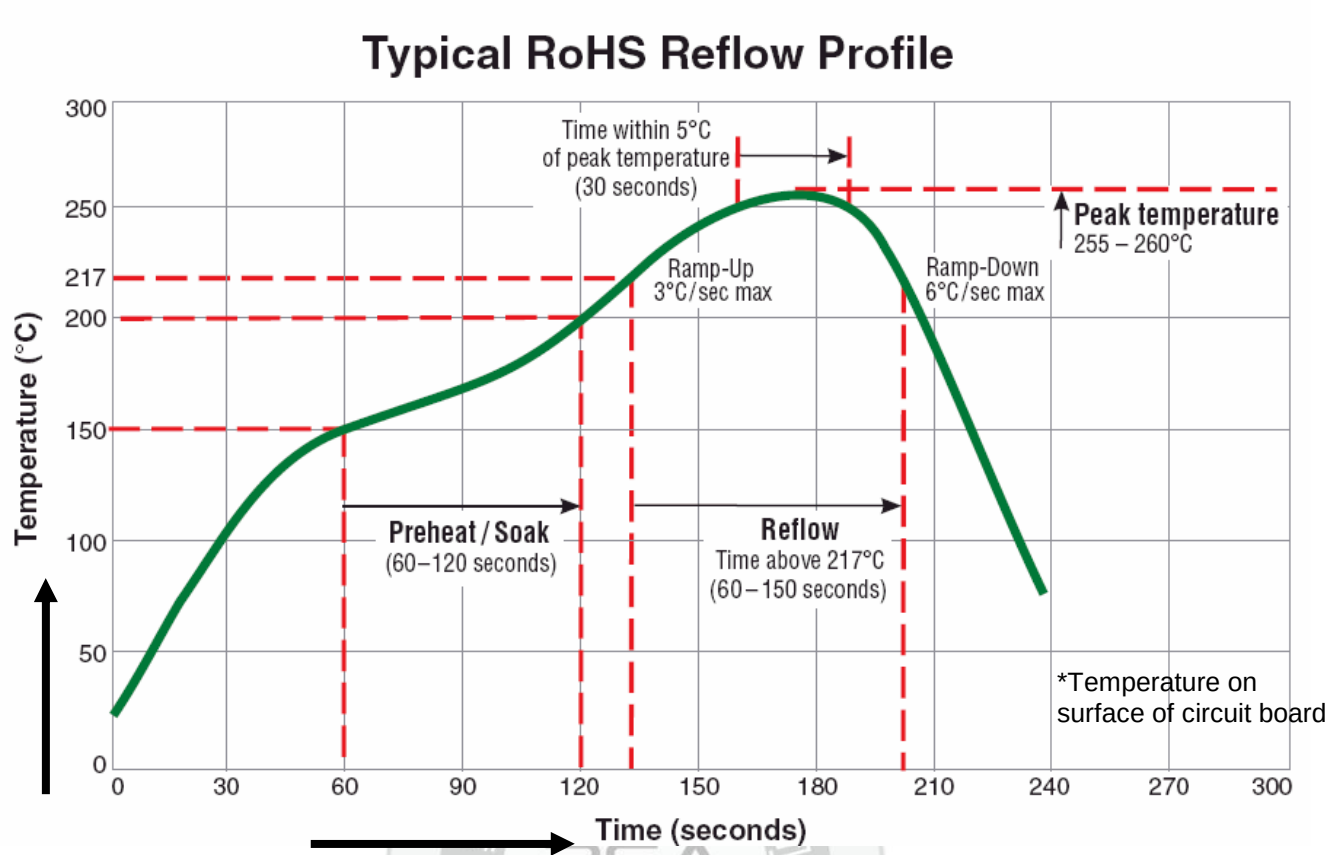
TEST INSTRUMENT: HP4284A、CHROMA 3302/1320/16502

＊Inductance drops no more than 10 % of initial value at rated current ,temperature rises △t< 40℃.

＊MSL：LEVEL 1

Copyright © by Walsin Technology Corporation. | All rights reserved.

TYPICAL RoHS REFLOW PROFILE



PSA
PASSIVE SYSTEM ALLIANCE
Walsin Technology Corporation
COPYRIGHT © WALSIN TECHNOLOGY CORPORATION. ALL RIGHTS RESERVED.

Copyright © by Walsin Technology Corporation. | All rights reserved.

RELIABILITY PERFORMANCE

Reliability Experiment For Electrical

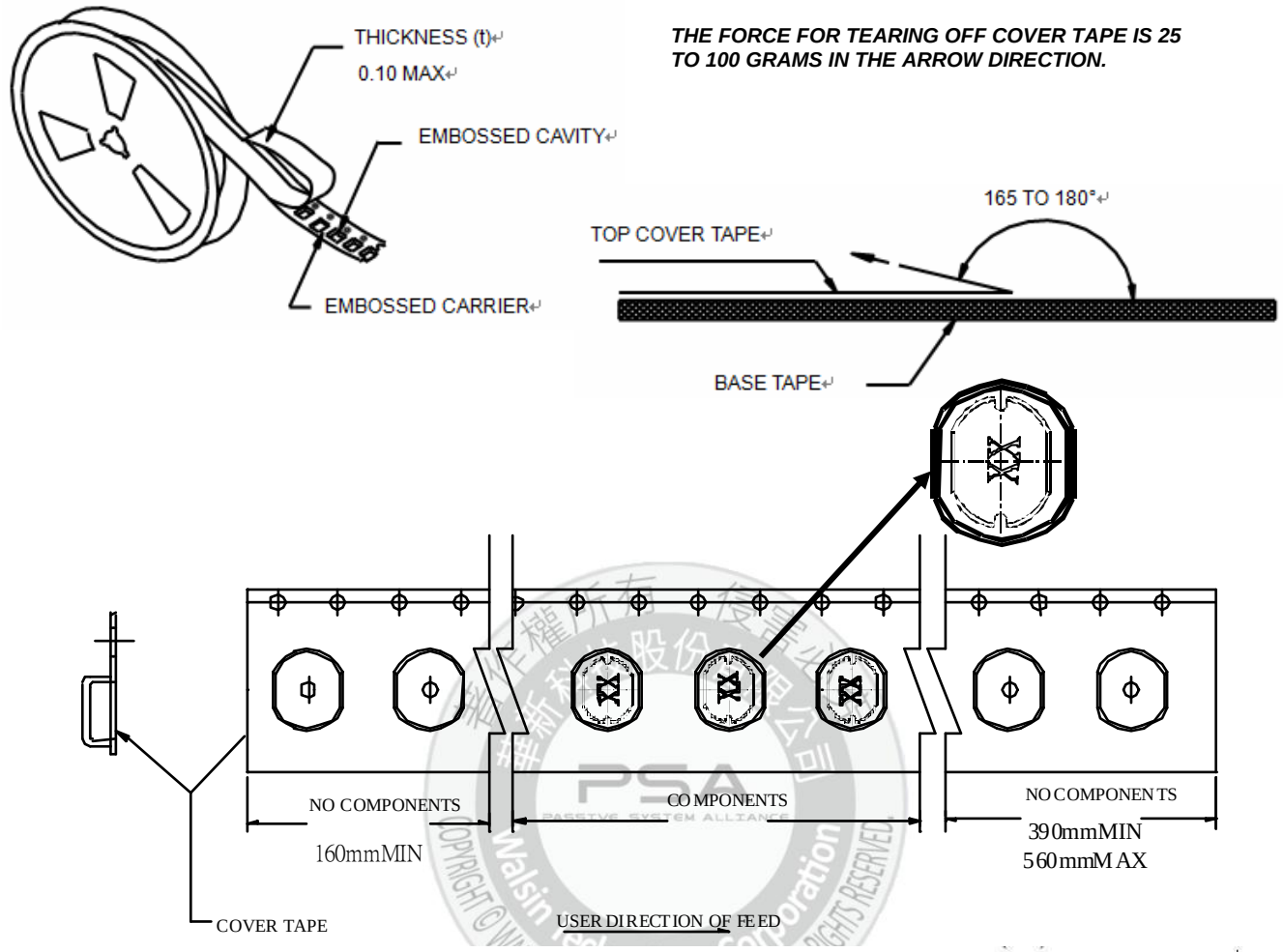
Test Item	Test Condition	Standard Source
Humidity Test	+40℃± 2℃, humidity of 90% ± 5% (total 96 hours).	MIL-STD-202G Method 103B Test Condition B
High Temperature Test	1.Temperature: +125℃±2℃ 2.Test time: 48±2hrs	IEC 68-2 Test Condition B
Low Temperature Test	1.Temperature: -40℃±2℃ 2.Test time: 48±2hrs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

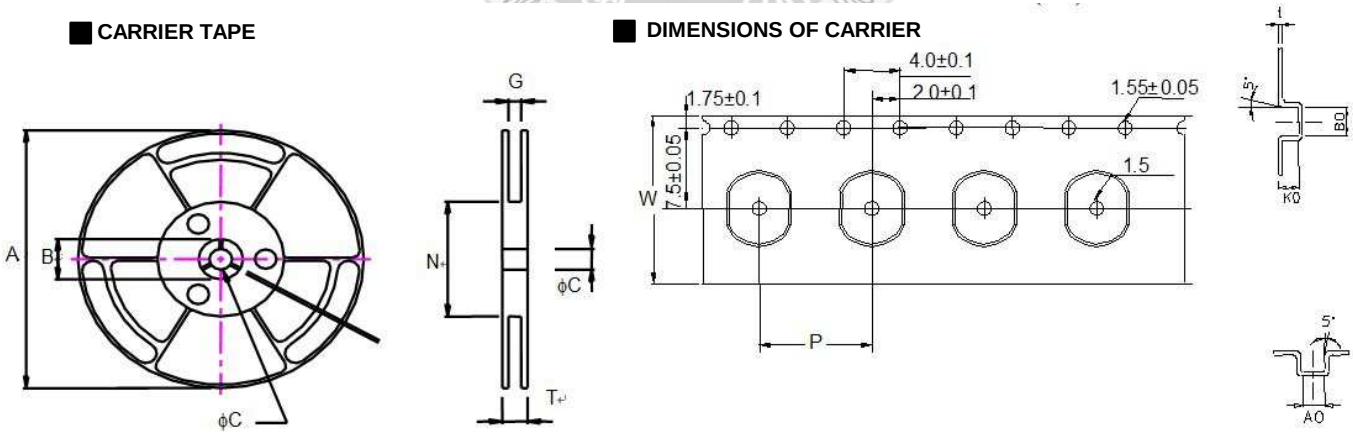
Copyright © by Walsin Technology Corporation. | All rights reserved.

Tape & Reel Packaging Dimensions:



■ **CARRIER TAPE**

■ **DIMENSIONS OF CARRIER**



	A	B	C	G	N	P	T	W	t	A0	B0	K0
DIM.	180	50	13	12.5	80	8.0	18.5	12.0	0.35	3.30	3.70	2.50
TOL.	MAX	±0.8	+0.5-0.2	+2-0	MIN.	±0.1	MAX	±0.3	±0.1	±0.1	±0.1	±0.1

Quantity per reel：0.5K pcs

Copyright © by Walsin Technology Corporation. | All rights reserved.