APPROVAL SHEET

WLSN075D Series
Unshielded SMD Power Inductors

RoHS COMPLIANT

Pb Pb-Free

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

Features

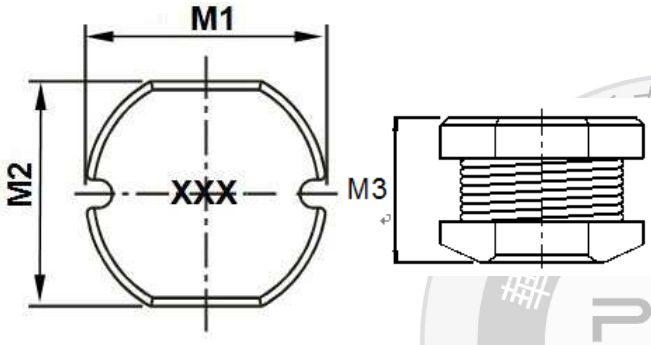
1. Unshielded power inductor.
2. Wide inductance range.

Applications

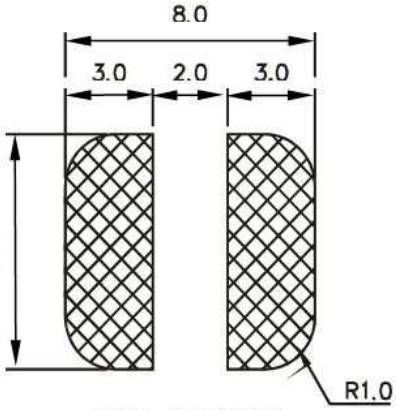
1. Inductor in DC/DC converter.
2. Use in STB、PDA、Notebook.

Shape and Dimension

Unit: mm



	DIM.	TOL.
M1	7.8	±0.3
M2	7.0	±0.3
M3	5.0	±0.5



LAND PATTERNS
Recommended Patterns

Ordering Information

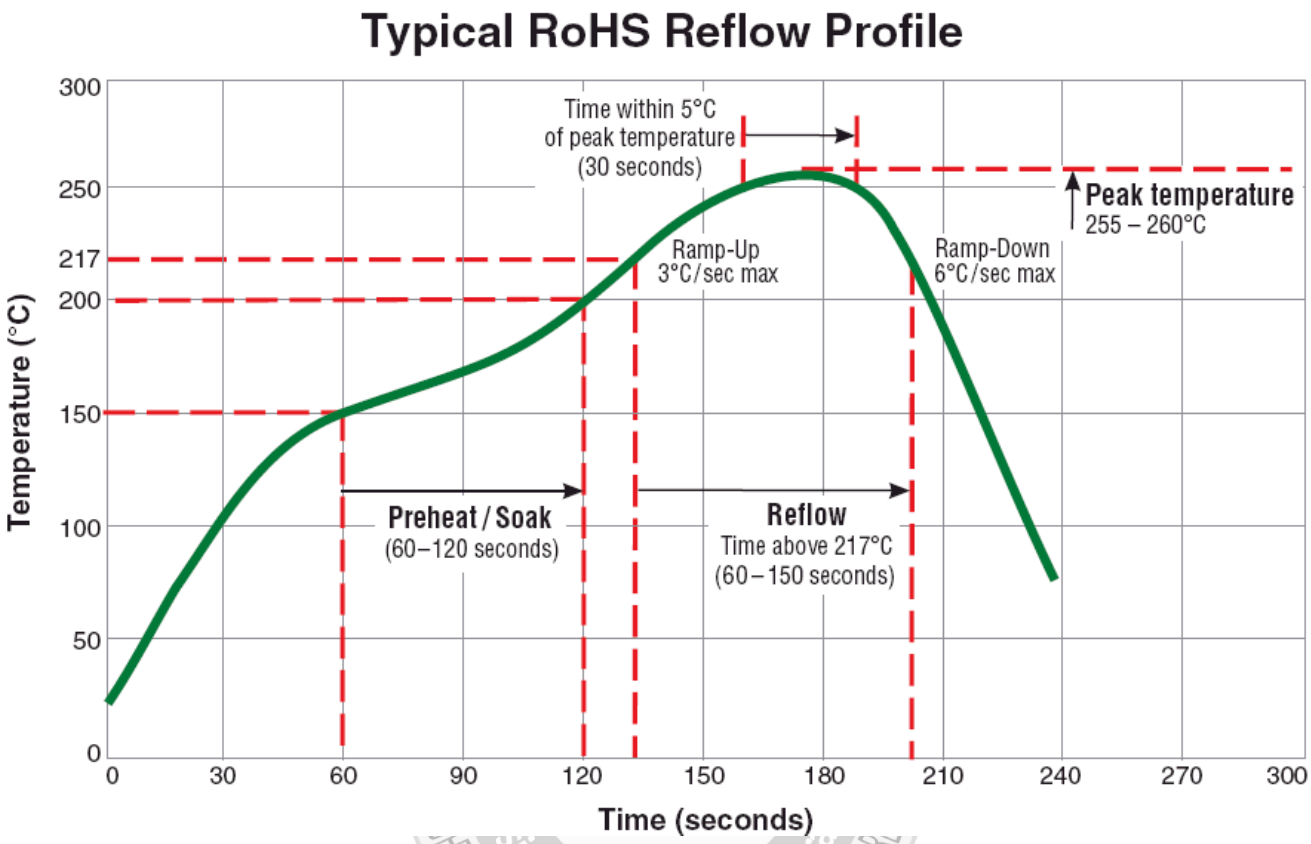
WL	SN	075D	Z0	M	1R0	L	B
Product Code	**Series**	**Dimensions**	**Series extension**	**Tolerance**	**Value**	**Packing Code**	
WL: Inductor	Unshielded SMD Power Inductors	7.8 * 7.0 mm	Z0:STD	K : ± 10%	6R8 = 6.8uH 100 = 10.0uH 101 = 100uH 302 = 3000uH	L=13" Reeled (Embossed tape)	B:STD

Electrical Characteristics

WLSN075D Series	Marking	L (uH)	Inductance Tolerance	Test Freq (KHz)	DCR (Ω) MAX.	Rated Current (A)
WLSN075DZ0K6R8LB	6R8	6.8	± 10%	100	0.058	3.0
WLSN075DZ0K8R2LB	8R2	8.2	± 10%	100	0.06	2.4
WLSN075DZ0K100LB	100	10	± 10%	100	0.07	2.30
WLSN075DZ0K120LB	120	12	± 10%	100	0.08	2.00
WLSN075DZ0K150LB	150	15	± 10%	100	0.09	1.80
WLSN075DZ0K180LB	180	18	± 10%	100	0.10	1.60
WLSN075DZ0K220LB	220	22	± 10%	100	0.11	1.50
WLSN075DZ0K270LB	270	27	± 10%	100	0.12	1.30
WLSN075DZ0K330LB	330	33	± 10%	100	0.13	1.20
WLSN075DZ0K390LB	390	39	± 10%	100	0.16	1.10
WLSN075DZ0K470LB	470	47	± 10%	100	0.18	1.10
WLSN075DZ0K560LB	560	56	± 10%	100	0.24	0.94
WLSN075DZ0K680LB	680	68	± 10%	100	0.28	0.85
WLSN075DZ0K820LB	820	82	± 10%	100	0.37	0.78
WLSN075DZ0K101LB	101	100	± 10%	10	0.43	0.72
WLSN075DZ0K121LB	121	120	± 10%	10	0.47	0.66
WLSN075DZ0K151LB	151	150	± 10%	10	0.64	0.58
WLSN075DZ0K181LB	181	180	± 10%	10	0.71	0.51
WLSN075DZ0K221LB	221	220	± 10%	10	0.96	0.49
WLSN075DZ0K271LB	271	270	± 10%	10	1.11	0.42
WLSN075DZ0K331LB	331	330	± 10%	10	1.26	0.40
WLSN075DZ0K391LB	391	390	± 10%	10	1.77	0.36
WLSN075DZ0K471LB	471	470	± 10%	10	1.96	0.34
WLSN075DZ0K681LB	681	680	± 10%	10	2.5	0.30
WLSN075DZ0K821LB	821	820	± 10%	10	2.77	0.35
WLSN075DZ0K202LB	222	2200	± 10%	1	7.2	0.15
WLSN075DZ0K302LB	302	3000	± 10%	1	10.0	0.12
WLSN075DZ0K472LB	472	4700	± 10%	1	21.0	0.08

Tolerance：K：±10%
TEST INSTRUMENT: HP4284A & Chroma3302, 1320, 16052.
＊Operating Temp：-25℃ to +105℃.
＊Inductance drops no more than 10% at rated current applied or temperature rises Δt≦40℃
＊MSL：LEVEL 1

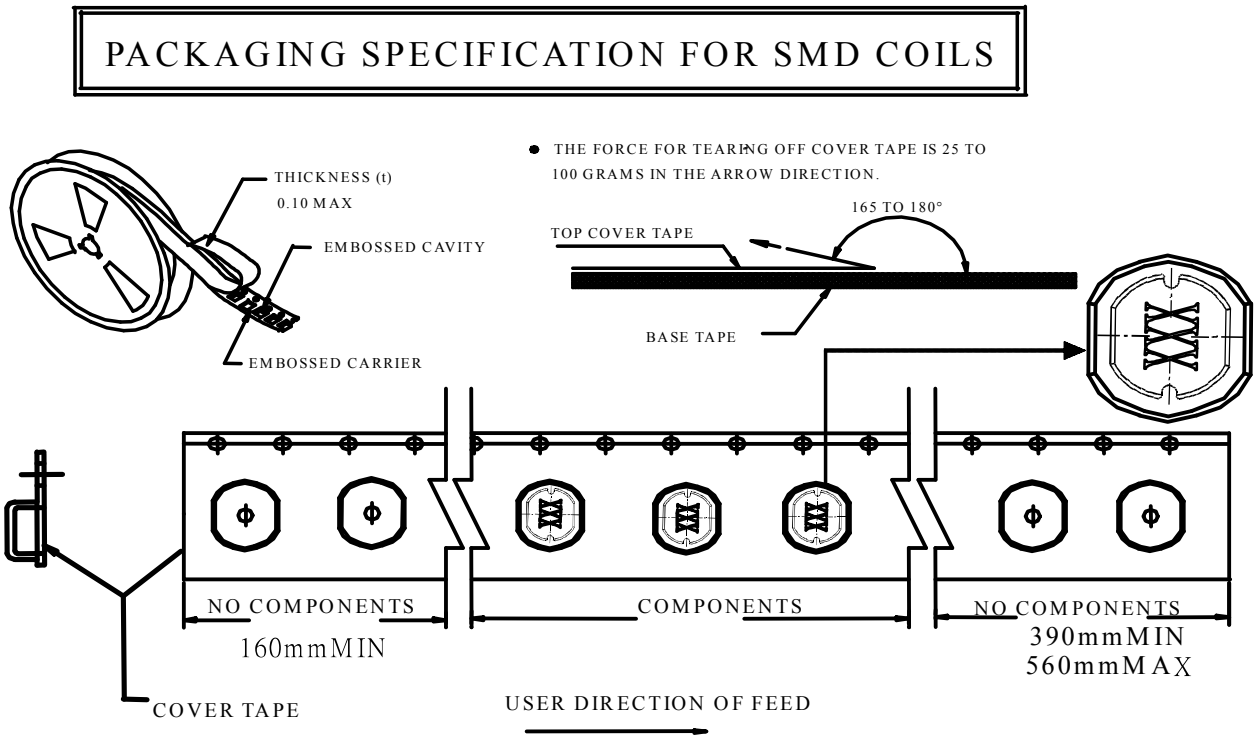
TYPICAL RoHS REFLOW PROFILE



Mechanical Performance /Environmental Test Performance Specifications:

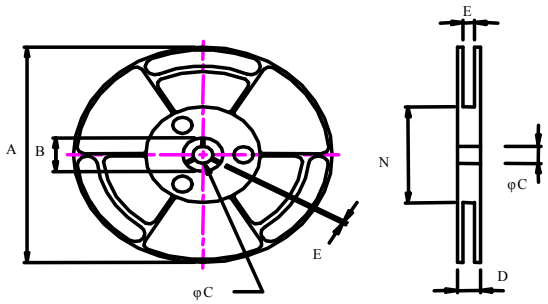
No.	Item	Test condition	Requirements
1	Salt Spray Test	Chamber temperature 35℃, the concentration of salt spray 5% (Total 24 hours).	MIL-STD-202G Method 101E Test Condition C
2	Humidity Test	+40℃± 2℃, humidity of 90% ± 5% (total 96 hours).	MIL-STD-202G Method 103B Test Condition B
3	High Temperature Storage	1.Temperature: 125, 100, 85, 70, 55, 40, 30℃. 2.Test time: 2, 16, 72, 96 hours.	IEC 68-2 Test Condition B
4	Low Temperature Storage	1. Temperature:. -40, -25, -10. 2.Test time: 2, 16, 72, 96 hours.	IEC 68-2 Test Condition A
5	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
6	Life Test	+100℃±2℃ (1000Hour)	MIL-STD-202G Method 108A Test Condition D
7	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
8	Solder Heat Resistance Test	DIP: Soak in 260℃ solder pot, stay 10Sec Reflow: Keep 250 ±5℃,30 ±5Sec in air, Temperature ramp:+1~4°C/sec; Above1 83°C, must keep 90 s ~ 120 s.	MIL-STD-202G Method 210F Test Condition B(DIP) Test Condition (Reflow)
9	Terminal Pull Strength Test	1/2, 1, 2, 3, 5, 10 Pound, as products terminal feature.	MIL-STD-202G Method 211A Test Condition A
10	Solder Ability Test	Soak in 245 ℃ solder pot of 3Sec, PAD must have 95% above coverage.	J-STD-003B
11	Terminal Push Strength Test	No special requirements: 5N thrust to maintain 10 Sec.	JIS C5321:1997

Tape & Reel Packaging Dimensions:

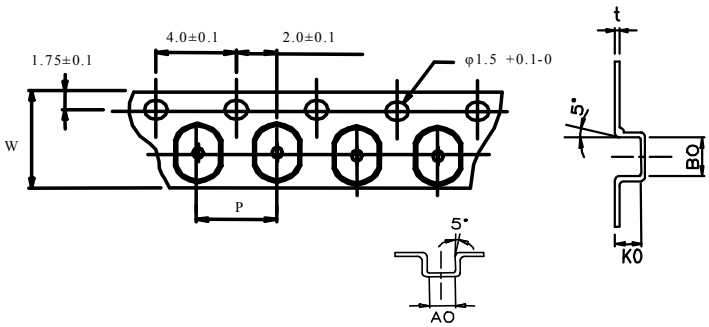


■ CARRIER TAPE REELS (mm)

MATERIAL: PLASTIC



■ DIMENSIONS OF CARRIER TAPE (mm)



∴ 10 sprocket hole pitch cumulative tolerance ±0.20

UNIT : mm

	A	B	C	E	N	P	D	W	t	AO	BO	KO
DIM.	340	21.0	13	16.4	80	12.0	22.4	16.0	0.30	7.2	8.1	5.5
TOL.	MAX	0.8	0.5	2.0	MIN.	0.10	MAX.	0.3	0.05	0.10	0.10	0.10

Quantity per reel：1K pcs