

APPROVAL SHEET

WTBL2012 Series SMD Balun

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

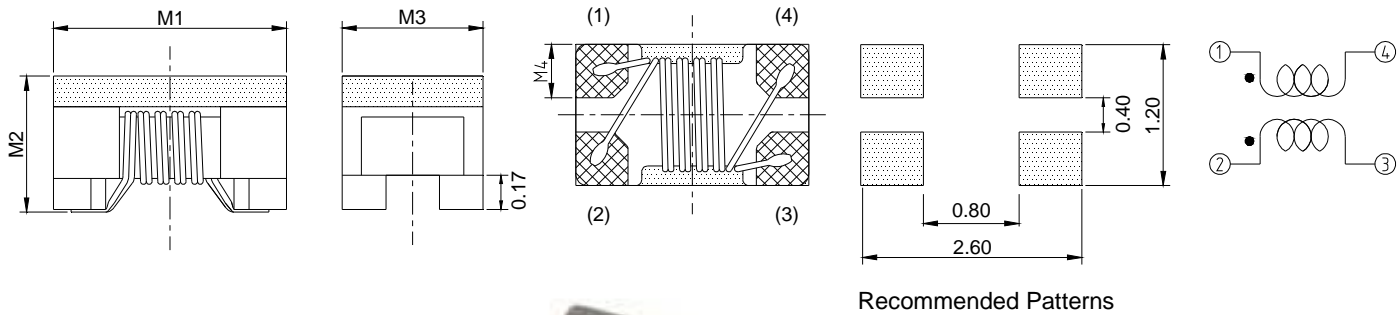
Features

1. Impedance 75Ω or 50Ω.
2. Excellent solderability.

Applications

1. TV Tuner、STB and Mobile devices.

Shape and Dimension



Unit: mm

SERIES	M1	M2	M3	M4
WTBL2012	2.0±0.2	1.20±0.2	1.20±0.2	0.45(TYP.)

Ordering Information

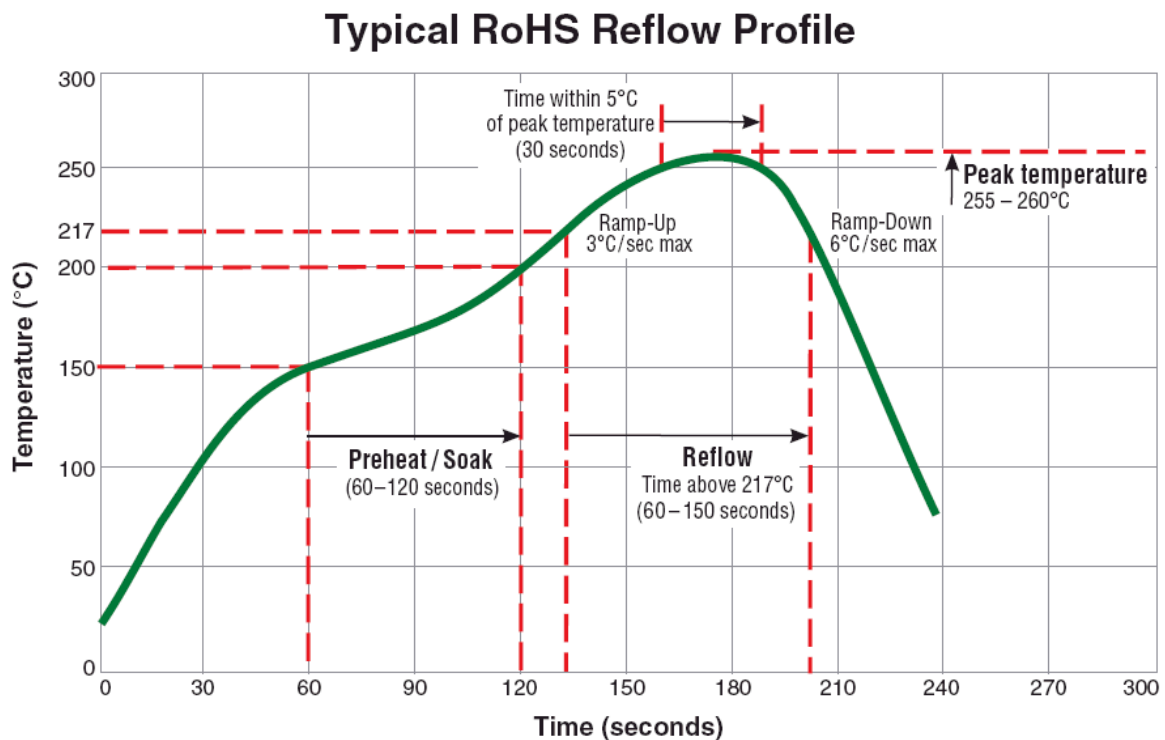
WT	BL	2012	Z0	U	001	P	B
Product Code	Series	Dimensions	Series extension	Tolerance	Value	Packing Code	
WT: Transformer /Balun /Common Mode Choke	Balun	2.0 * 1.2 mm	Z0	Undefined	Serial NO.	P=7" Reeled (Embossed tape)	B:STD

Electrical Characteristics

Part Number	UB/B Impedance (ohm)	Insulation (m OHM) Min.	Withstand Voltage (DCV)	DCR (OHM) MAX.	Rated Voltage (DCV)	Rated Current (mA)	Frequency Range	Insertion Loss at Freq. Range (max.)
WTBL2012Z0U001PB	50/50	10	125	0.35	50	330	40MHz To 0.86GHz	2.5
WTBL2012Z0U002PB	75/75	10	125	0.35	50	330	50MHz To 1.2GHz	1.2
WTBL2012Z0U003PB	75/75	10	125	0.35	50	330	1.0GHz To 1.5GHz	1.4
WTBL2012Z0U004PB	75/75	10	125	0.35	50	330	50MHz To 1.2GHz	1.2
WTBL2012Z0U005PB	50/50	10	125	0.35	50	330	400MHz To 1.8GHz	2.2
WTBL2012Z0U006PB	75/75	10	125	0.50	50	330	400MHz To 1.8GHz	2.0
WTBL2012Z0U007PB	75/75	10	125	0.50	50	330	50MHz To 1.2GHz	1.2
WTBL2012Z0U008PB	75/75	10	125	0.35	50	330	400MHz To 1.5GHz	1.4
WTBL2012Z0U009PB	75/75	10	125	0.50	50	330	50MHz To 2.35GHz	2.0
WTBL2012Z0U010PB	75/75	10	125	0.50	50	330	250MHz To 2.35GHz	1.5

1. Insertion Loss Tested by AgilentE5071C
2. DCR Tested by Zentech502BC
3. Operating Temperature Range -40°C ~ +85°C *MSL Level : 1

TYPICAL RoHS REFLOW PROFILE



RELIABILITY PERFORMANCE

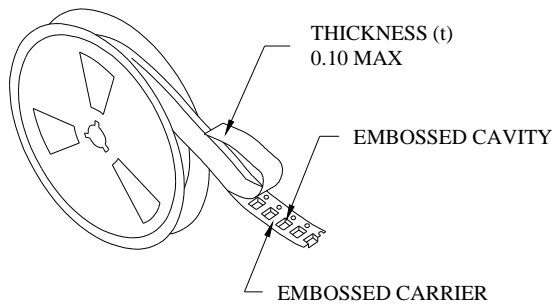
Reliability Experiment For Electrical

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 ± 2hrs	IEC 68-2 Test Condition B
Low Temperature Test	1. Temperature: -40°C ± 2°C 2. Test time: 48 ± 2hrs	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 (250Hours)	MIL-STD-202G Method 108A Test Condition B

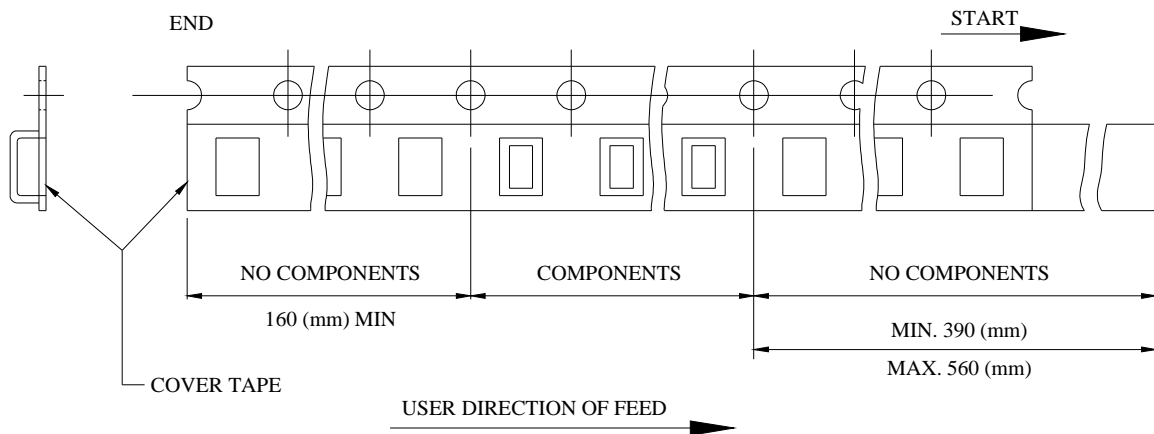
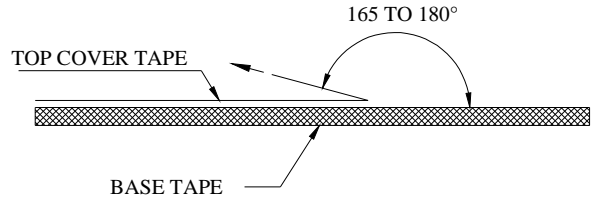
Reliability Experiment For Physical

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°C for 5Sec in air, Through 2 Cycle. 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

Tape & Reel Packaging Dimensions:

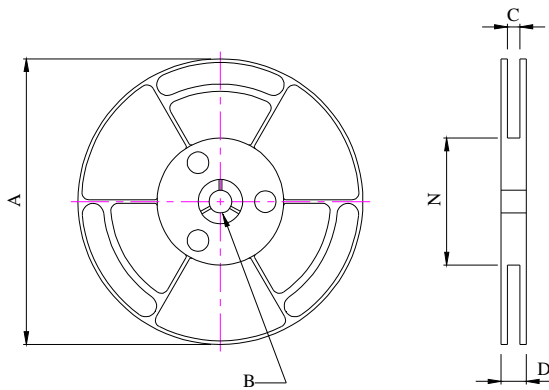


- THE FORCE FOR TEARING OFF COVER TAPE IS 10 TO 100 GRAMS IN THE ARROW DIRECTION.

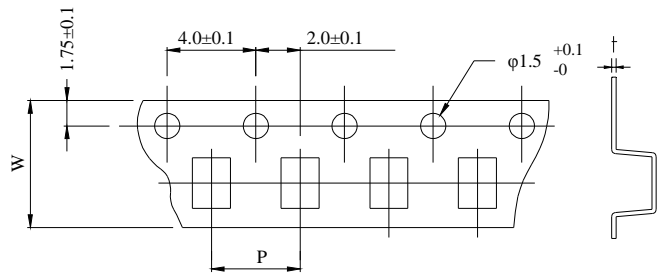


■ CARRIER TAPE REELS (mm)

MATERIAL: PLASTIC



■ DIMENSIONS OF CARRIER TAPE (mm)



UNIT : mm

	A	B	C	D	N	P	W	t
DIM.	178	13.0	8.4	12.5	50	4.0	8.00	0.22
TOL.	±2.0	±0.8	+1.0-0	MAX	MIN	±0.10	±0.20	±0.05

Quantity per reel : 2K pcs