



# Apps Electronics Limited

## 雅思電子有限公司

位址：香港九龍新浦崗大有街29號宏基中心1407室

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ABL-B02-75011-252

Balun Trasformer(5-300MHz)

## Description

### SCOPE

- ABL-B02-75011-252 is a 1:1 balun transformer in a SMT package.

### APPLICATIONS

- Ideally suitable for CATV broadband applications.

### FEATURES

- Surface mount
- Impedance ratio: 1:1
- Centre tap on secondary
- RoHS compliant and Pb free
- Available on tape and reel

## PART NUMBER

ABL - B02 - 75011 - 252  
 ①② - ③④ - ⑤ - ⑥

- ① Apps Electronics Limited
- ② Product series
- ③ Form Factor
- ④ Size Number
- ⑤ Impedance/Ratio
- ⑥ Design series Code

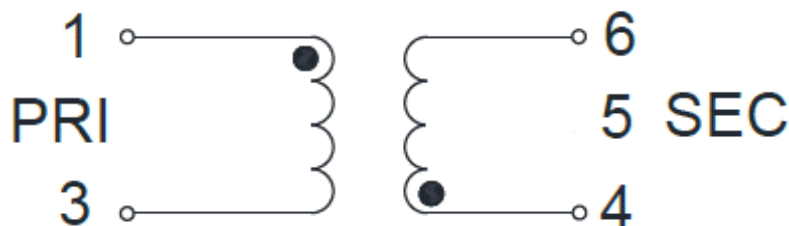
### Form Factor

**B: Bobbin/Pin Base**  
**P: PCB base**  
**C: Ceramic base or SMD core**  
**F: Ferrite SMD core**  
 Other...

**02: Form sequence code**  
**75011: 75 ohm, 1 : 1 Ratio**  
**252: Design series Code**

Series	Function description
<b>BT/BL/WB</b>	<b>Balun Transformer</b>
PD/PS	Power Divider/Power Splitter
PC	Power Combiner
CP	Directional Coupler, branch line hybrid/coupler
CL	Coupler+LPF
TF	RF Transformer(non-Balun, SE/SE, BA/BA)
LP/HP/BP/DP/TP	Filter(Lowpass/Highpass/Bandpass/Diplexer/Triplexer)
PT/PM	Power Transformer/Power Module
CM	C.M. Choke
E	Lan Transformer/RJ45/Air Coil
	Other...

## FUNCTIONAL SCHEMATIC



## Pin Configuration

Pin No.	Function
1	Primary Dot
3	Primary
4	Secondary Dot
5	NA
6	Secondary



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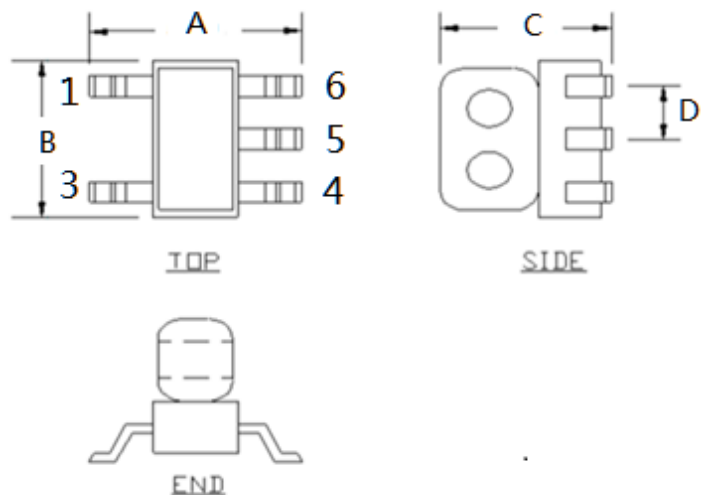
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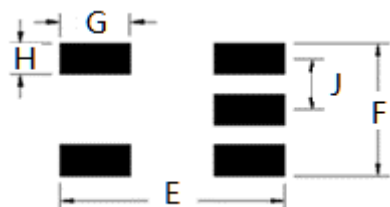
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Balun Transformer(5-300MHz)

### DIMENSIONS



### LAND PATTERN



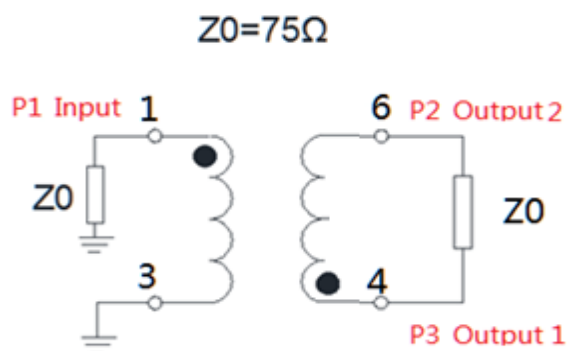
A	B	C
5.30	4.21	4.40
D		
1.50		

E	F	G
6.13	3.91	1.92
H	J	
0.91	1.50	

Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

### APPLICATION & TEST CIRCUIT



RF ports: P1/P2/P3

### ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input RF Power(+28dBm)	631mW Max
DC Current(tested at 5V)	600mA Max
Operating Temperature Range	-40 to 85°C



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### ELECTRICAL SPECIFICATIONS@25°C:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0 (P1 / P2 / P3)			75 / 37.5/ 37.5		Ohm
Insertion Loss	5-200MHz		0.8	1.2	dB
	200-300MHz		1.4	2.0	dB
Input Return Loss (Pin 1)	5-200MHz	15.0	18.0		dB
	200-300MHz	10.0	15.0		dB
Amplitude Balance	5-200MHz		0.40	0.8	dB
	200-300MHz		0.80	1.2	dB



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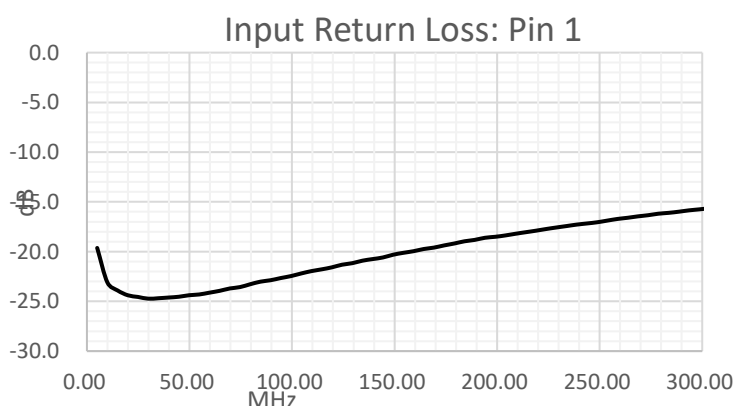
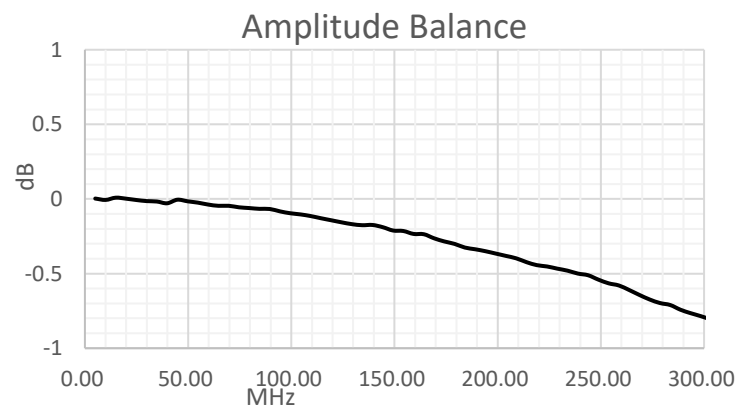
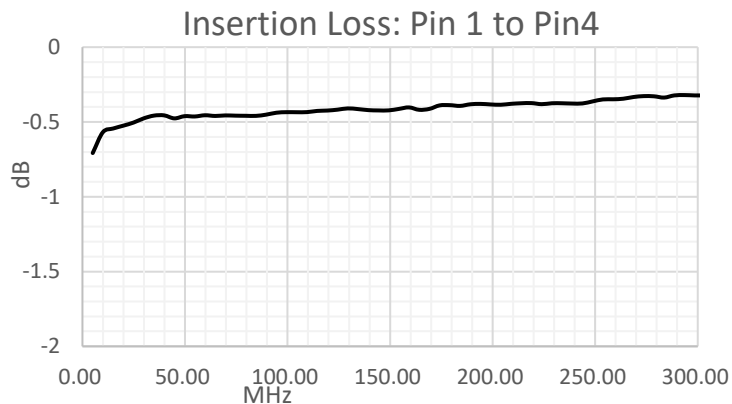
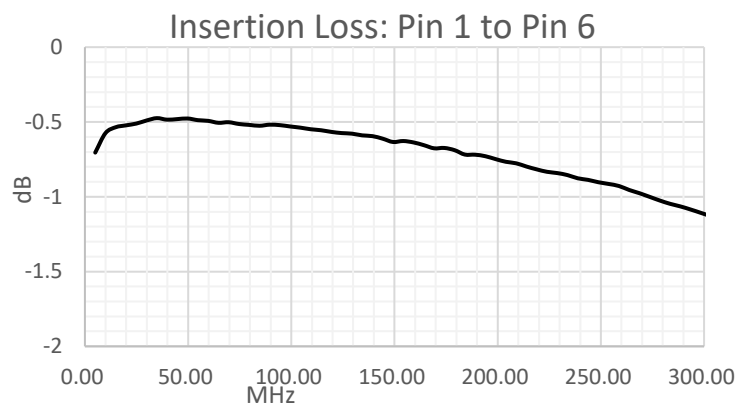
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### TEST CURVE





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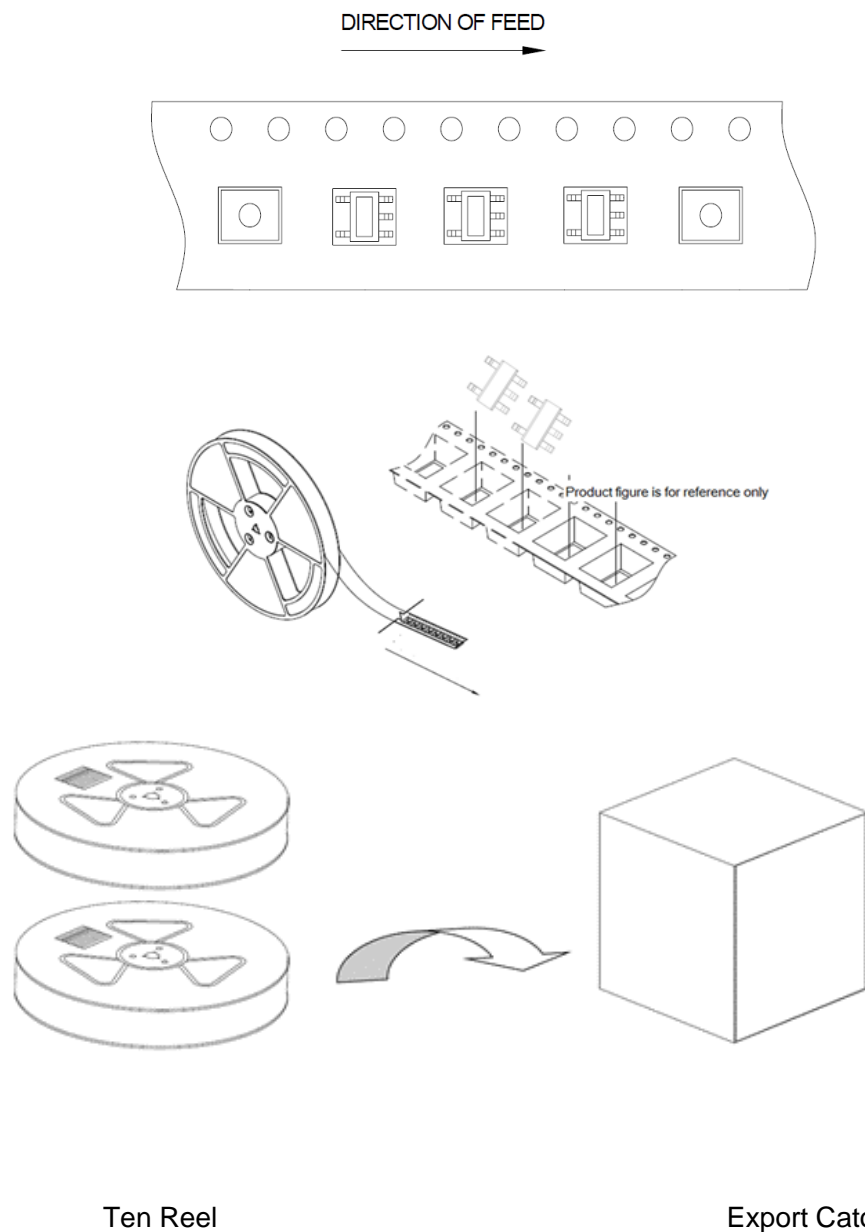
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### PACKING



Quantity per reel: 2000pcs

Quantity per export carton: 20000pcs