



# Apps Electronics Limited

## 雅思電子有限公司

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ABT-C16-50011-241

Balun Trasformer(650-4500MHz)

## Description

### SCOPE

- ABT-C16-50011-241 is a 1:1 balun transformer in a SMT package.

### APPLICATIONS

- balanced to unbalanced transformation
- push-pull amplifiers
- PCS/DCS,MMDS

### FEATURES

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

## PART NUMBER

ABT - C16 - 50011 - 241  
 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...

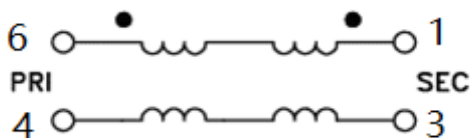
**16: Form sequence code**

**50011: 50 ohm, 1 : 1 Ratio**

**241: 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	Secondary Dot
2	Not Used
3	Secondary
4	Primary
6	Primary Dot



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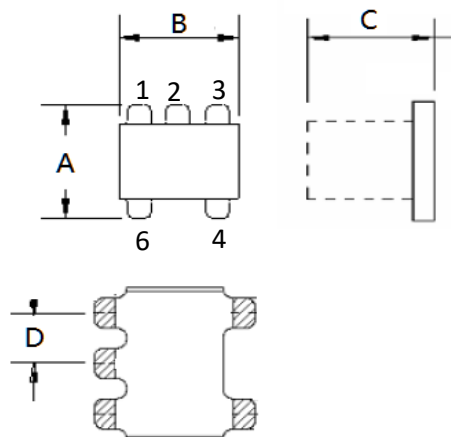
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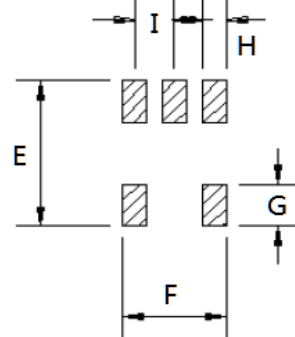
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### DIMENSIONS



A	B	C
3.81	3.81	4.00 Max
D		
1.27		

### Land Pattern

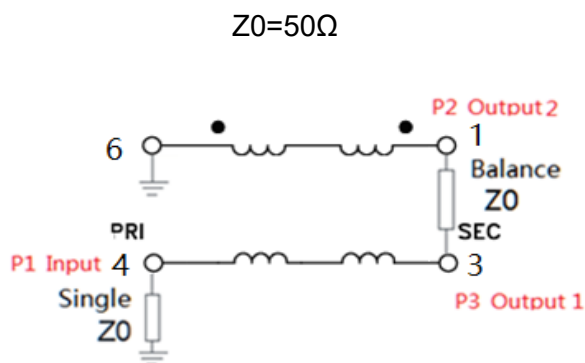


E	F	G
4.83	3.30	1.40
H	J	
0.76	1.27	

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 Power	250mW Max
DC Current	30mA Max
Operating Temperature Range	-40 to 85°C
Storage Temperature Range	-55 to 100°C



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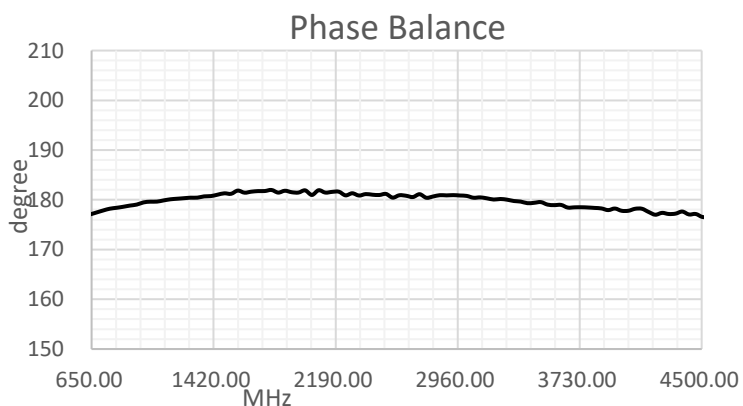
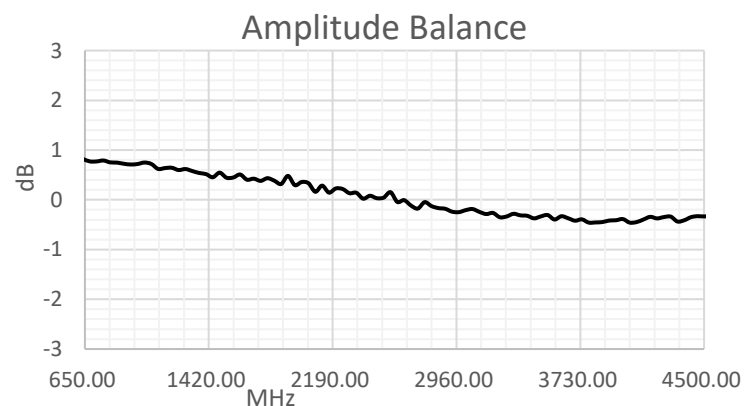
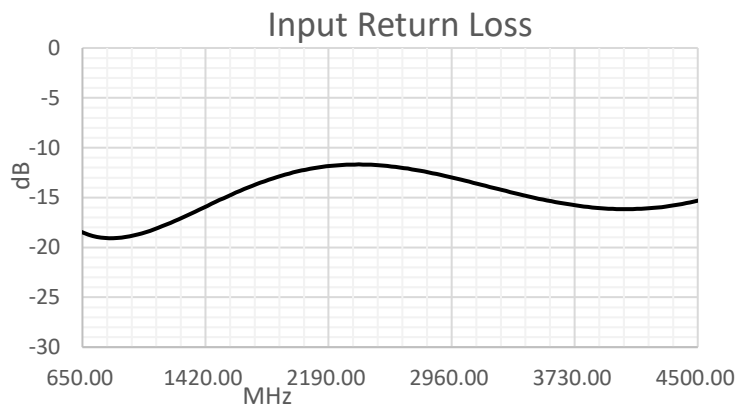
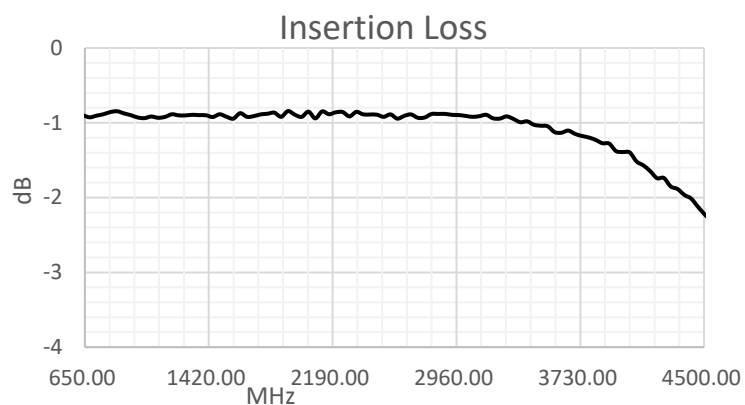
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### ELECTRICAL SPECIFICATIONS@25°C:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0 (P1 / P2 / P3)			50 /25 25		Ohm
Insertion Loss	650-4500MHz		2.0	3.0	dB
	800-3000MHz		1.0	2.0	dB
Amplitude Balance	650-4500MHz		0.5		dB
Phase Balance	650-4500MHz		8.0		Deg

### TEST CURVE





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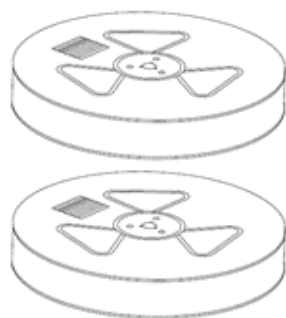
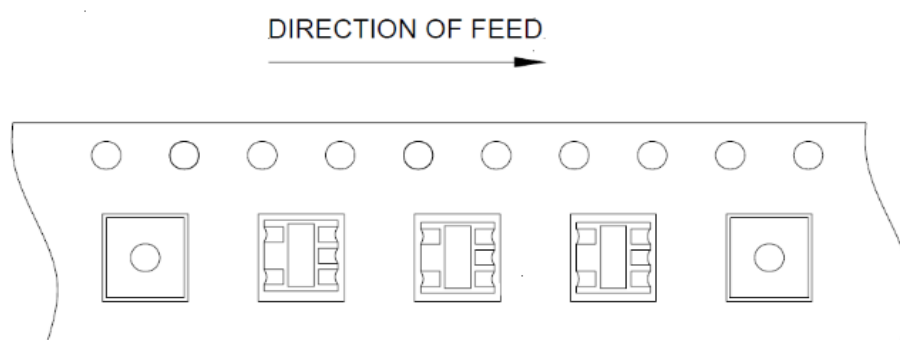
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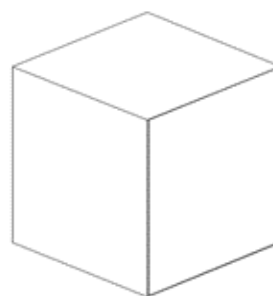
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### PACKING



Ten Reel



Export Carton

Quantity per reel: 2000pcs

Quantity per export carton: 20000pcs