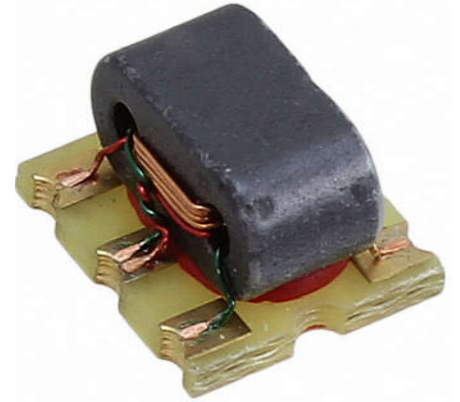


## RF Balun Transformer 4:1 Step Down Transformer

### Features:

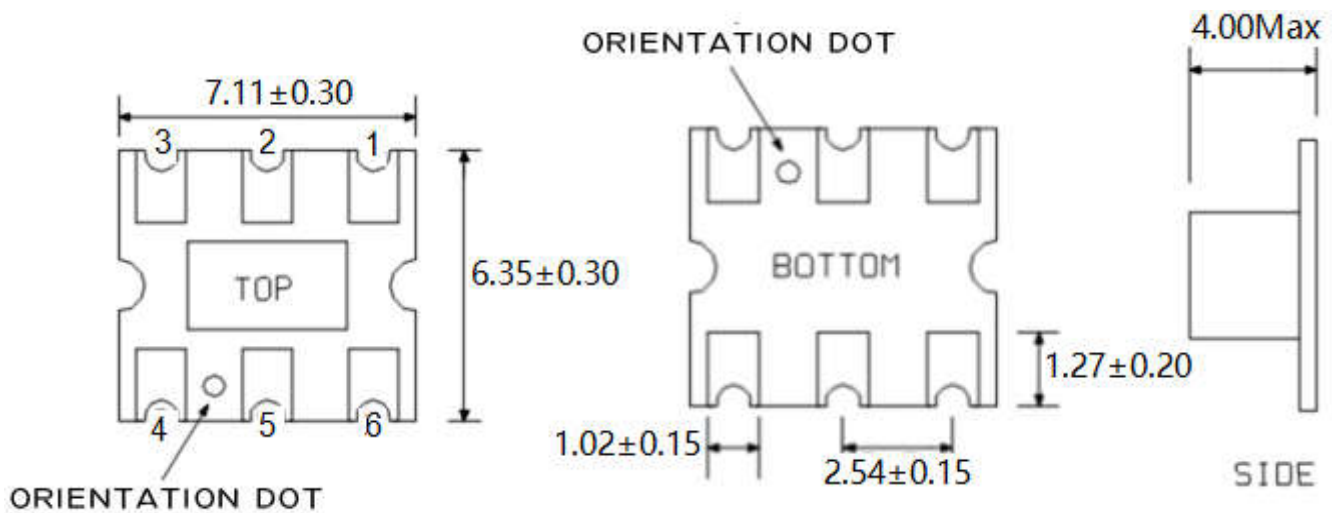
- ◆ Equivalent to: MABA-011002/MABA-011048
- ◆ 75 Ω Characteristic Impedance
- ◆ Frequency: 5 to 200 MHz
- ◆ RF power: 1.0W
- ◆ DC current: 500mA
- ◆ Operating temperature range: -40°C to +85°C
- ◆ Storage temperature range: -55°C to +100°C



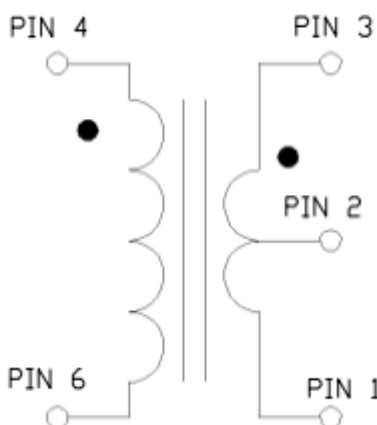
### Applications:

- ◆ For broadband and Docsis 3.1 Cable Modem
- ◆ For VHF/UHF receivers/transmitters and push-pull amplifiers

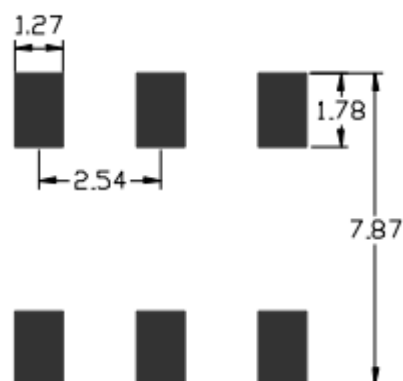
### Dimension Diagram (Unit:mm) :



### Electrical structure:

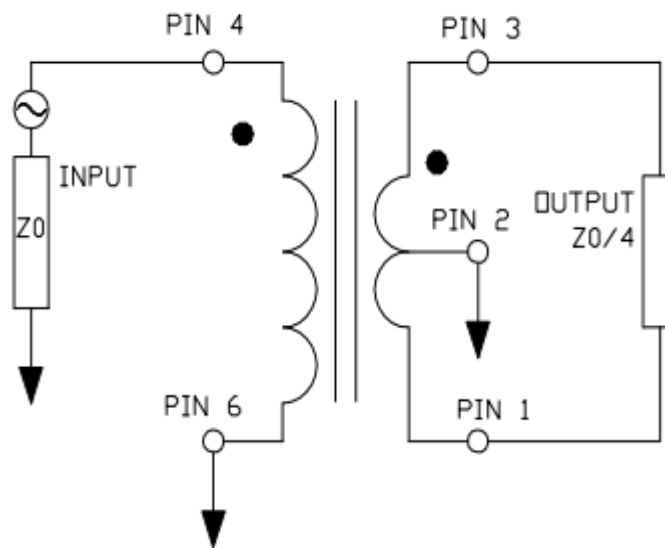


### Recommended layout:

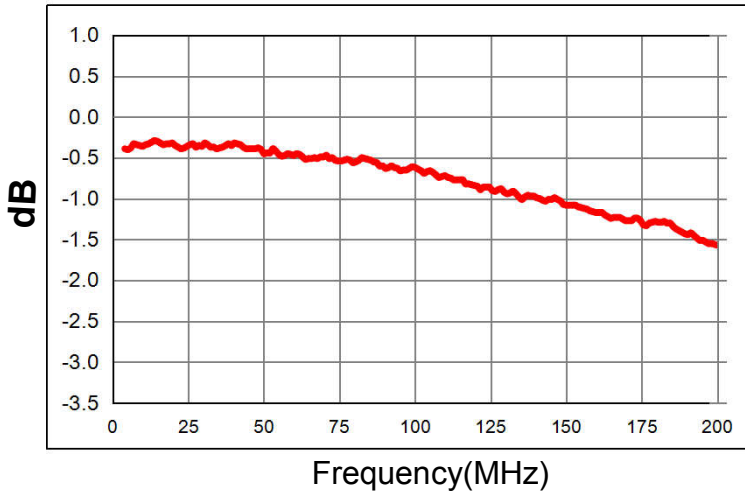
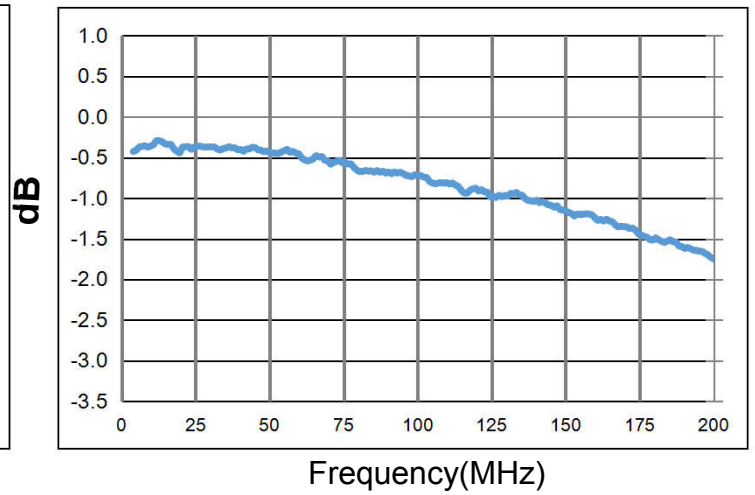
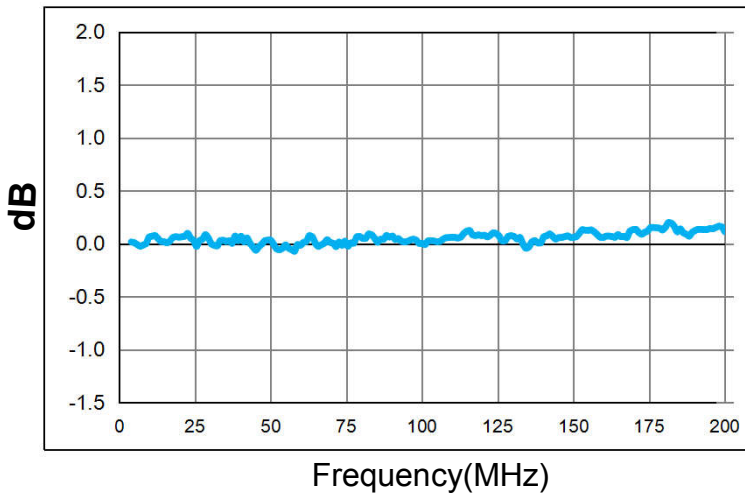
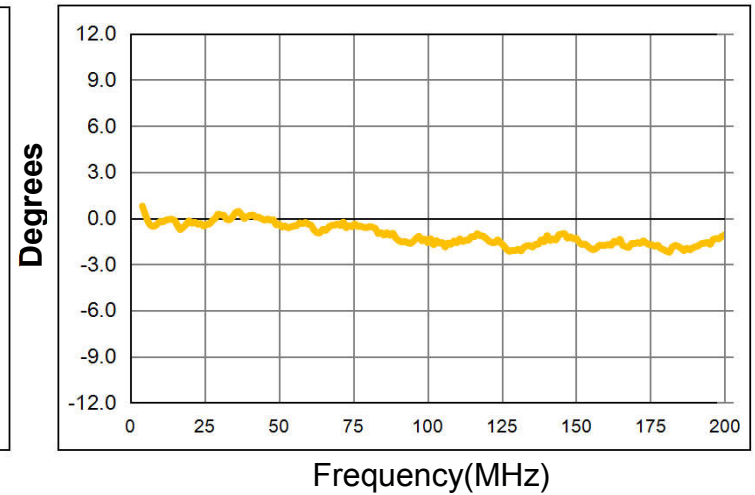
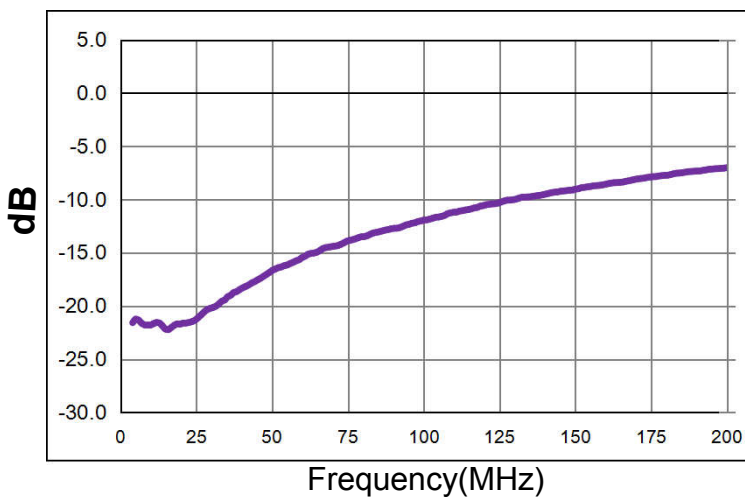


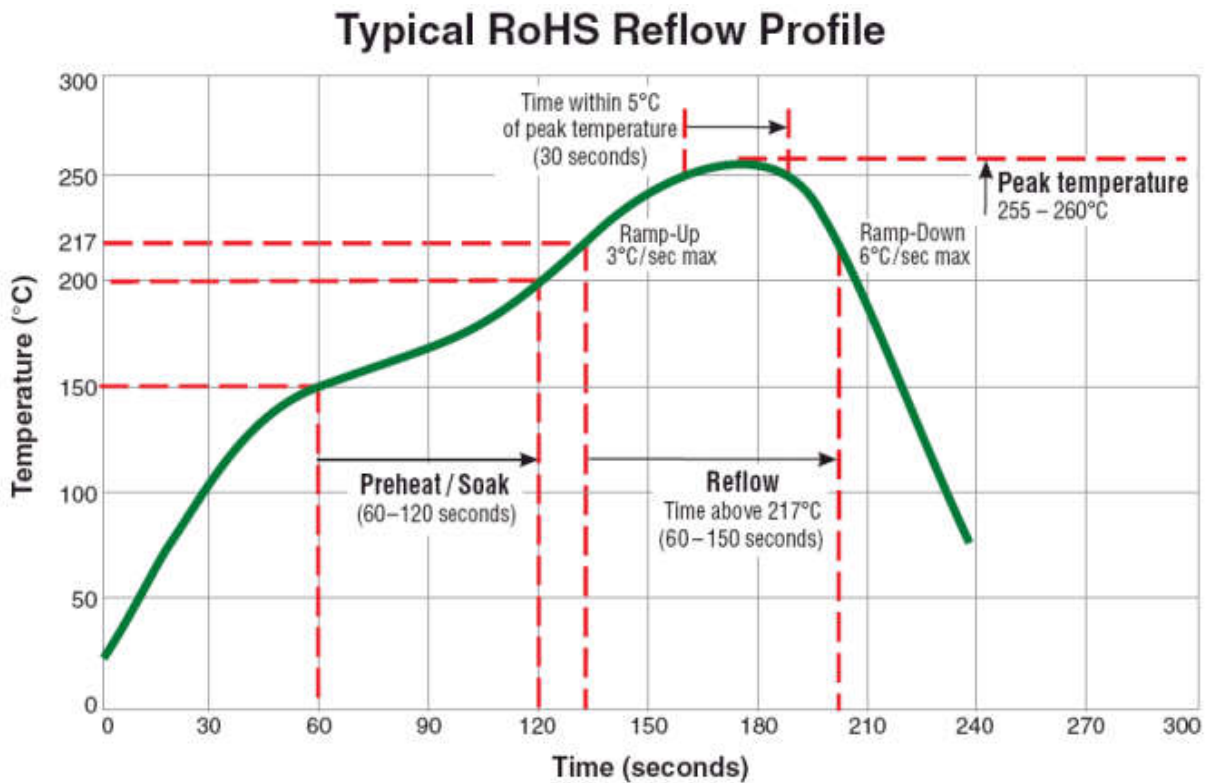
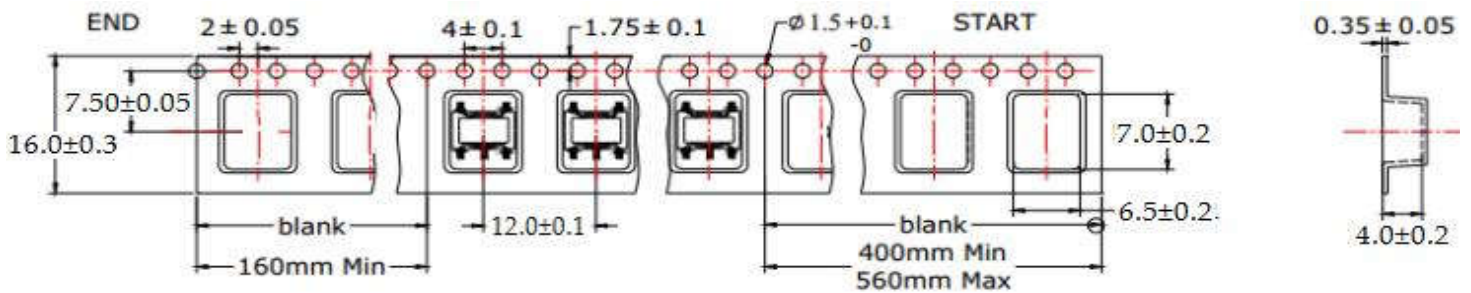
**Pin configuration:**

Pin No.	Function
1	Secondary (Output 2)
2	Centre tap(Ground)
3	Secondary dot(Output 1)
4	Primary dot(Input)
6	Primary(Ground)

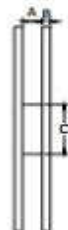
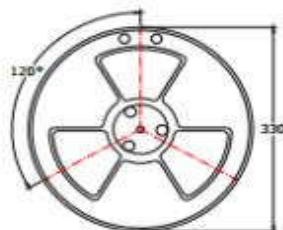
**Application circuit :**

**Electrical Specifications: TA=25°C, 0dBm, Z0=75Ω:**

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss(out1)	5-200MHz	dB	—	1.5	2.5
Main line Loss(out2)	5-200MHz	dB	—	1.5	2.5
Amplitude Balance	5-200MHz	dB	—	0.1	1.2
Phase Balance	5-200MHz	°	—	2.0	±6.0
Input Return Loss	5-200MHz	dB	5.0	8.0	—

**Main line Loss(out1)**

**Main line Loss(out2)**

**Amplitude Balance**

**Phase Balance**

**Input Return Loss**


**Recommended Soldering Temperature Graph:**

**Packaging Dimension For Caeier Tape(UNIT:mm):**


<b>QUANTITY</b>
1000PCS/Reel
3Reels/Middle Carton Middle Carton:
4 Middle Cartons/Big Carton
12000PCS/ Big Carton



SPEC	8	12	16	24
DIM A $\pm 0.1$	8.5	12.5	16.5	24.5
DIM B $\pm 0.1$	2.3	2.3	2.3	2.3
DIM C $\pm 0.1$	100	100	100	100

