

Features::

- ◆ 1: 2CT Impedance
- ◆ 50Ω Characteristic Impedance
- ◆ Frequency: 0.3to500 MHz
- ◆ RF power: 0.25W
- ◆ DC current: 30mA
- ◆ Operating temperature range: -40℃ to +85℃
- ◆ Storage temperature range: -55℃ to +100℃

H2WBC2-1TL



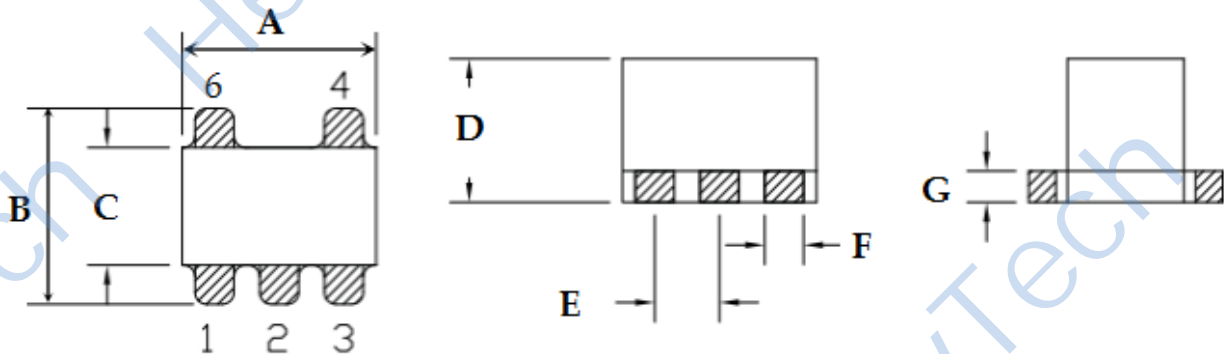
0.3-500MHz

Applications:

- ◆ For broadband and wireless communications
- ◆ For VHF/UHF receivers/transmitters and push-pull amplifiers

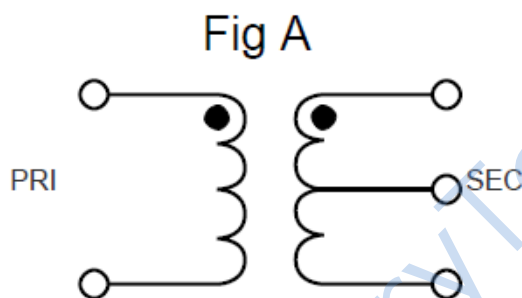
50 1: 2CT Flux Coupled Transformer

Dimension Diagram (Unit:mm) :

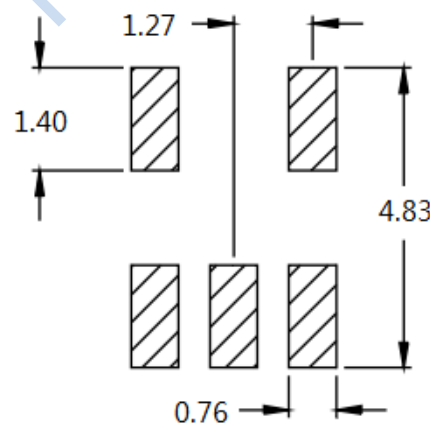


A=3.80±0.20 B=3.80±0.20 C=2.30±0.20 D=2.80±0.20 E=1.27±0.10 F=0.76±0.10 G=0.60±0.10

Electrical structure:



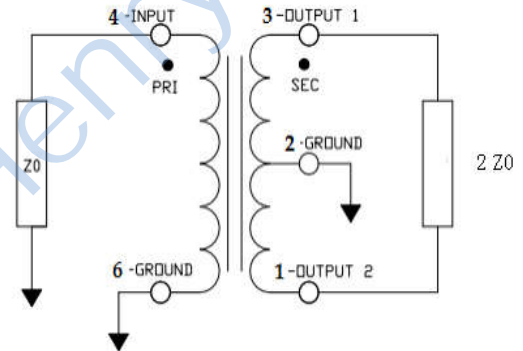
Recommended layout:



**Pin configuration:**

**Application circuit :**

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

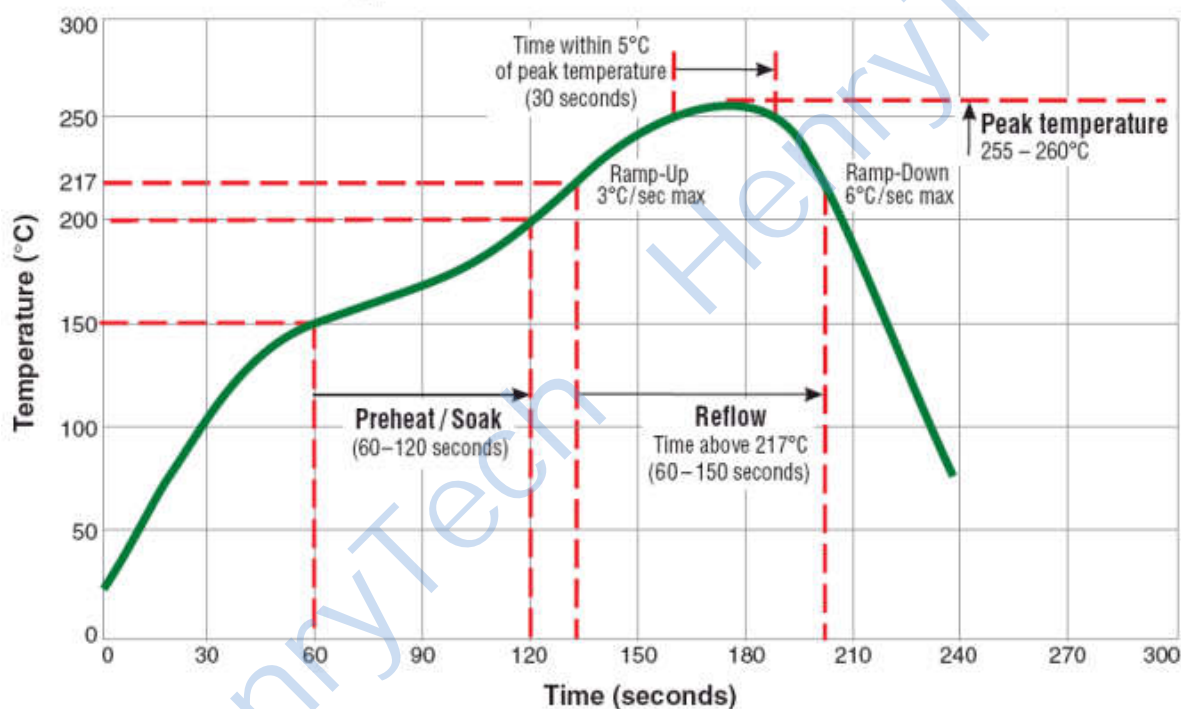


Electrical Specifications: T A=25°C Z0=50Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss(out1)	0.3-500MHz	dB	—	1.50	2.50
Main line Loss(out2)	0.3-500MHz	dB	—	0.50	1.50
Amplitude Balance	0.3-500MHz	dB	—	±1.5	±2.00
Phase Balance	0.3-500MHz	°	—	±5.00	±10.00
Input Return Loss	0.3-500MHz	dB	10.00	18.00	—

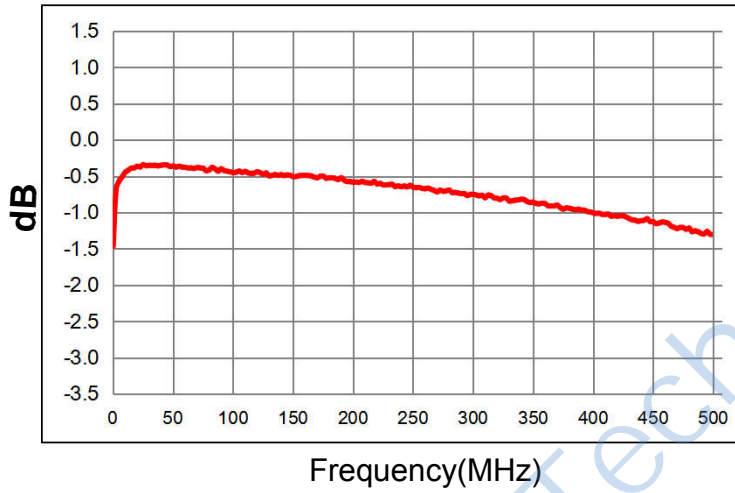
**Recommended Soldering Temperature Graph:**

**Typical RoHS Reflow Profile**

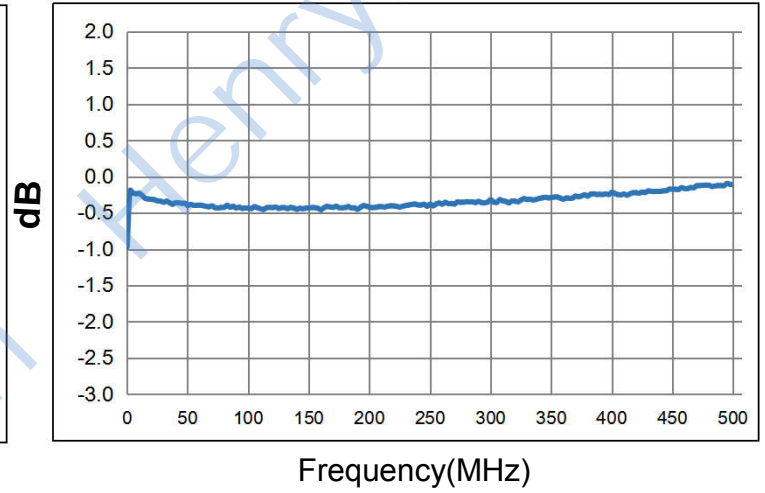


## RF Balun Transformer

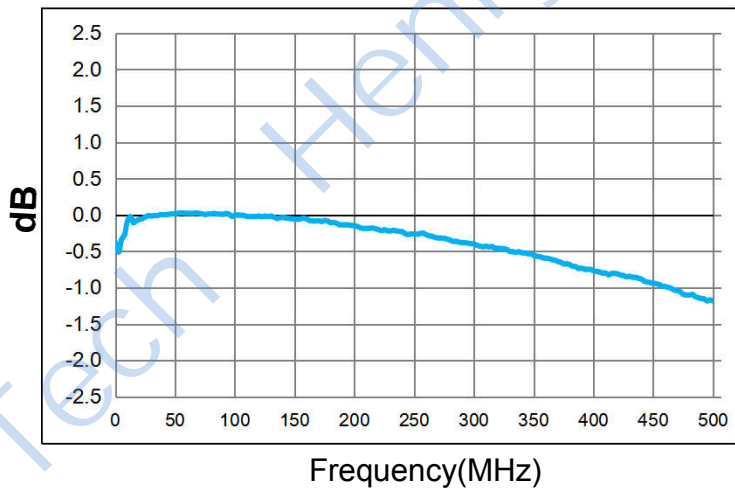
### Main line Loss(out1)



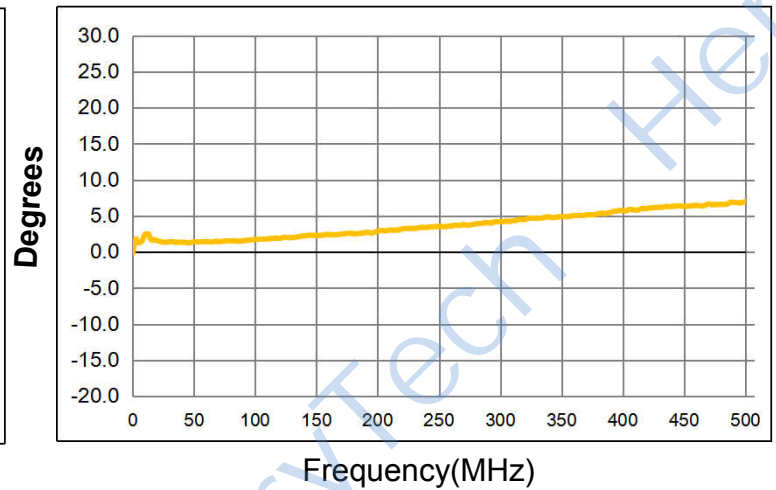
### Main line Loss(out2)



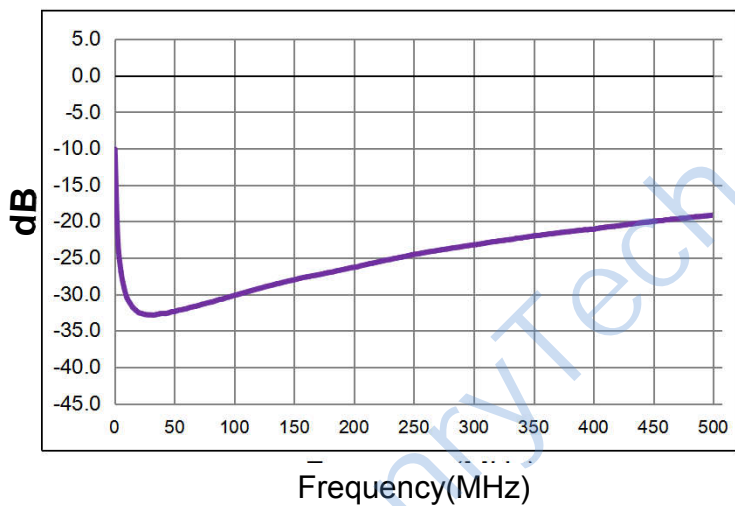
### Amplitude Balance



### Phase Balance



### Input Return Loss



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