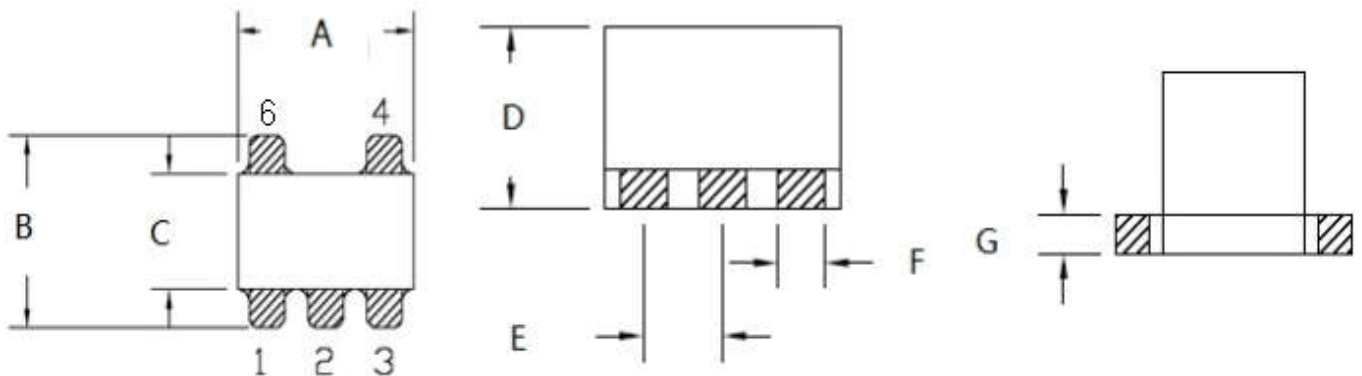


RF Balun Transformer, 1: 4CT Transmission Line Transformer
Features::

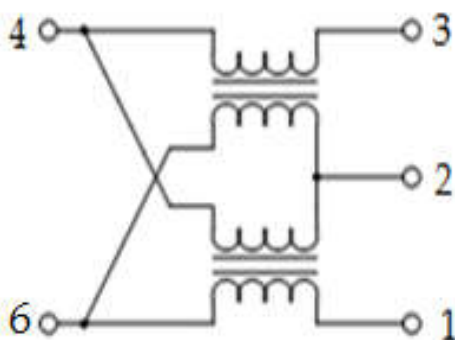
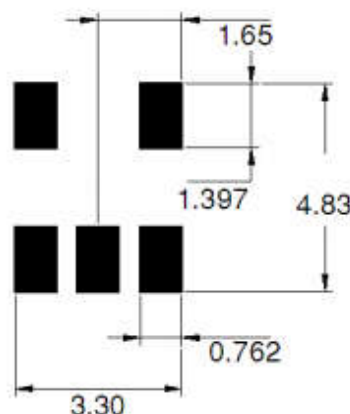
- ◆ 1: 4CT Impedance
- ◆ 50Ω Characteristic Impedance
- ◆ Frequency: 500 to 2500 MHz
- ◆ RF power: 0.50W
- ◆ DC current: 30mA
- ◆ Insertion loss: 3.5dB Max; Input Return loss: 10.0dB Min
- ◆ Operating temperature range: -40°C to +85°C
- ◆ Storage temperature range: -55°C to +100°C


Applications:

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

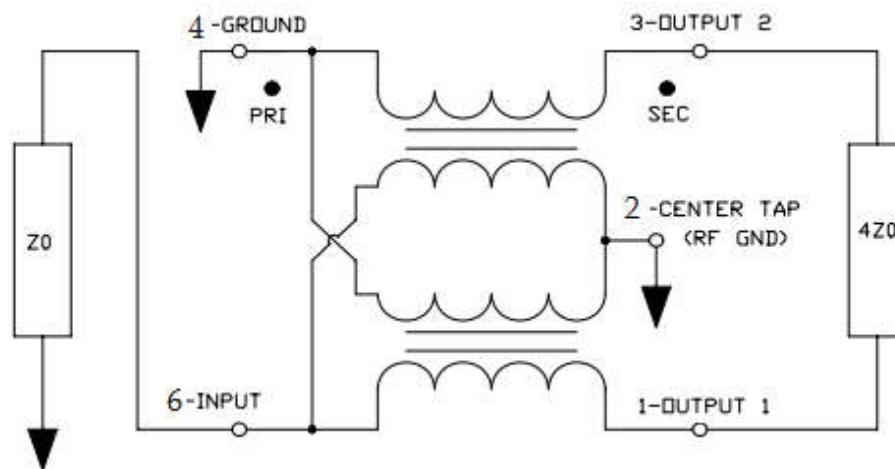
Dimension Diagram (Unit:mm) :


$$A=3.80\pm 0.20 \quad B=3.80\pm 0.20 \quad C=2.30\pm 0.20 \quad D=2.80\pm 0.20 \quad E=1.27\pm 0.05 \quad F=0.76\pm 0.05 \quad G=0.60\pm 0.05$$

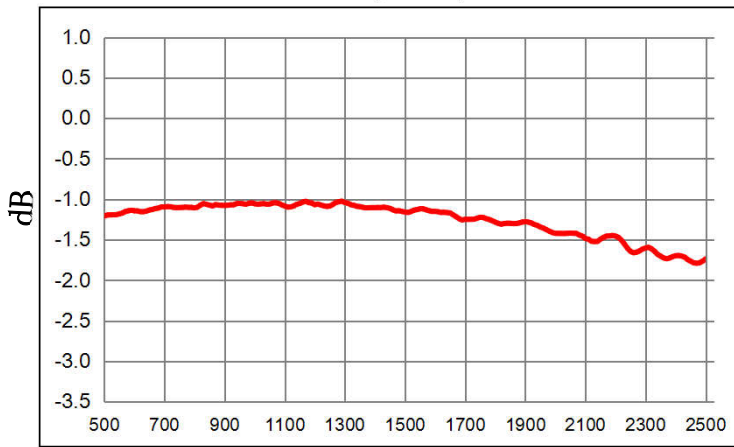
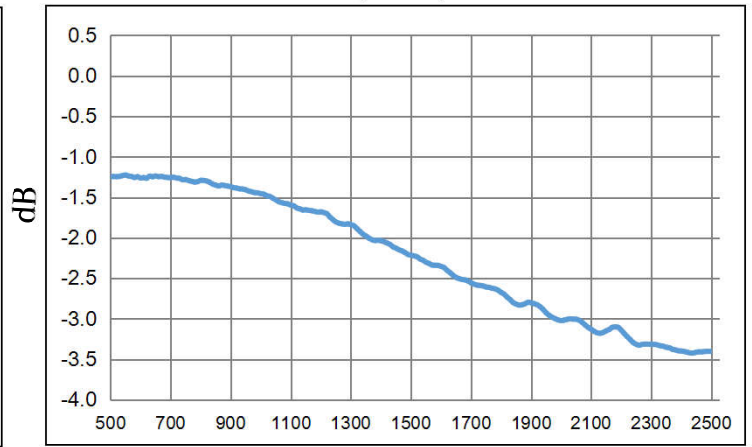
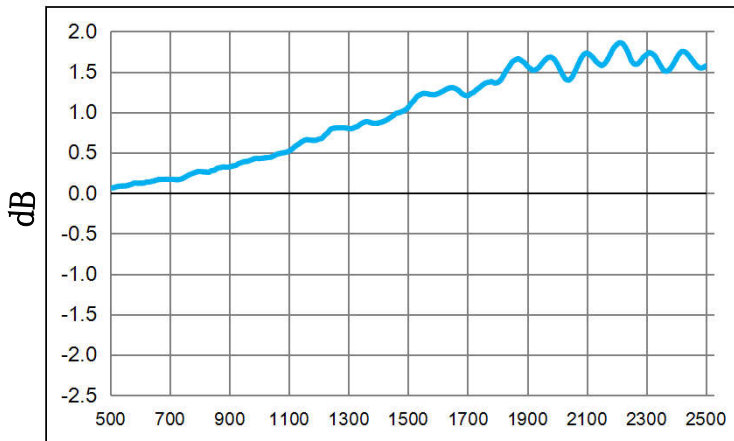
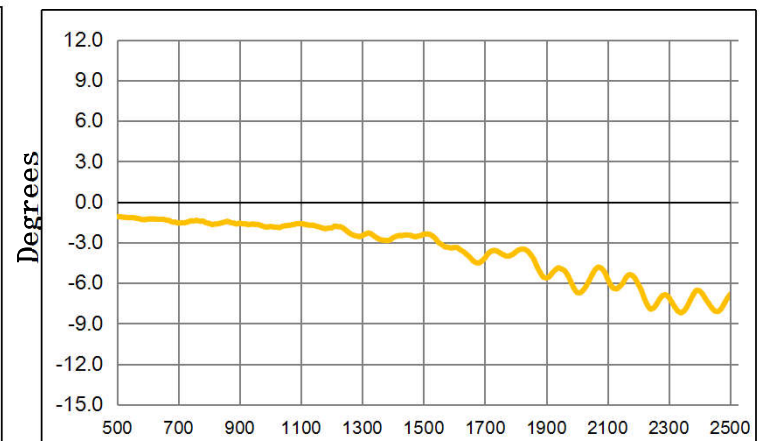
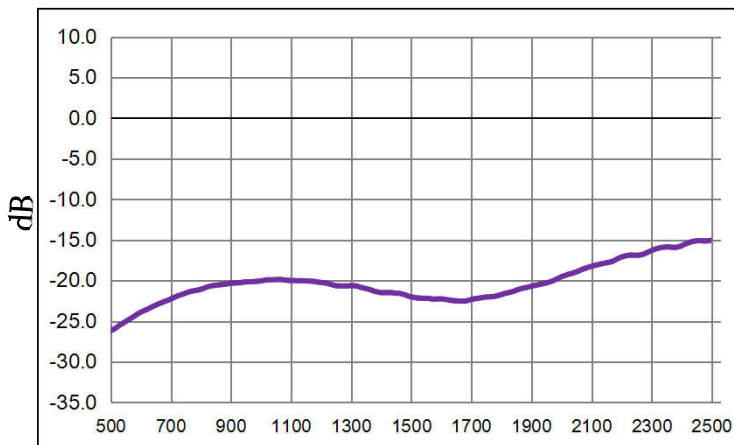
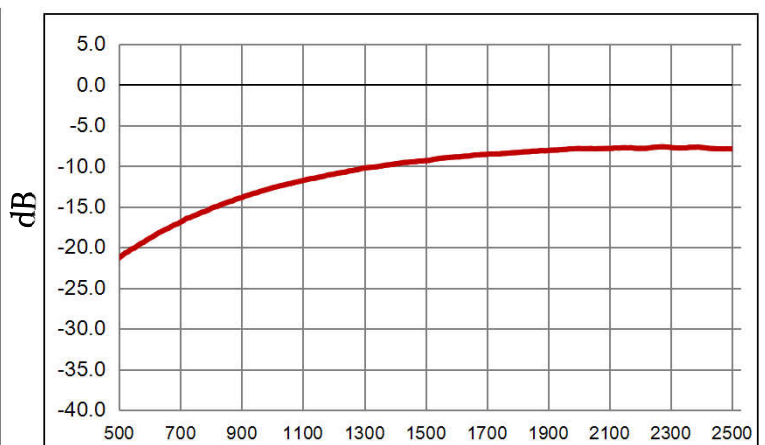
Electrical structure:

Recommended layout:


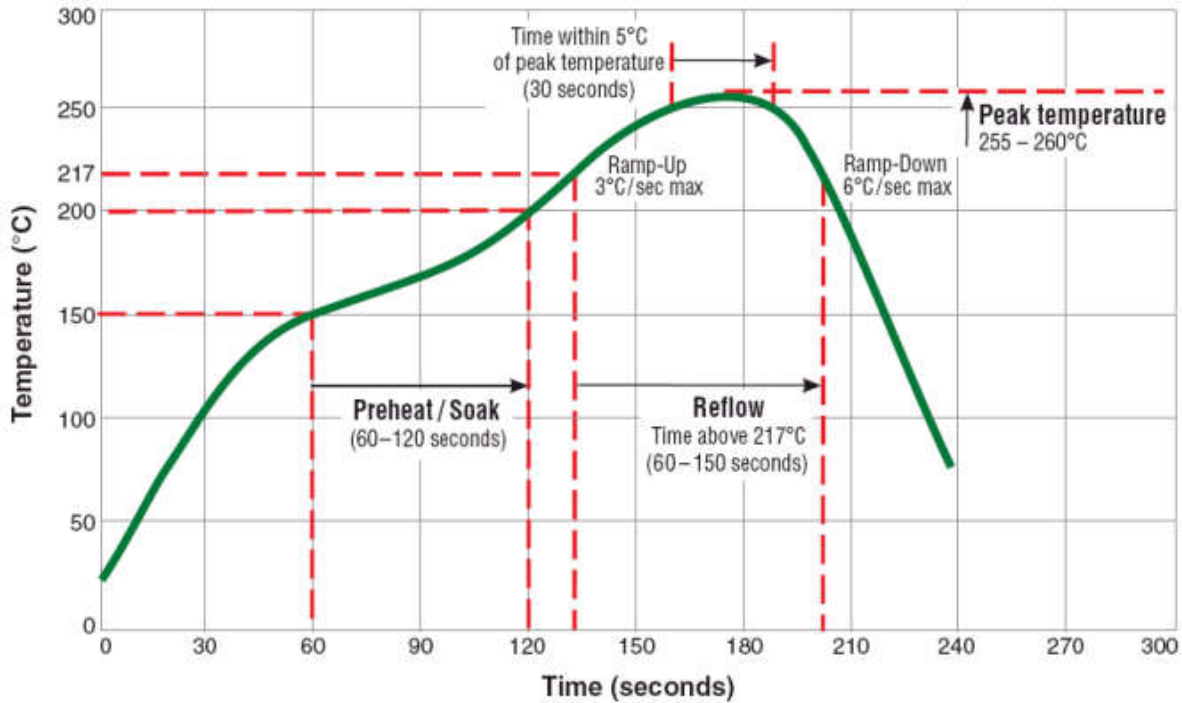
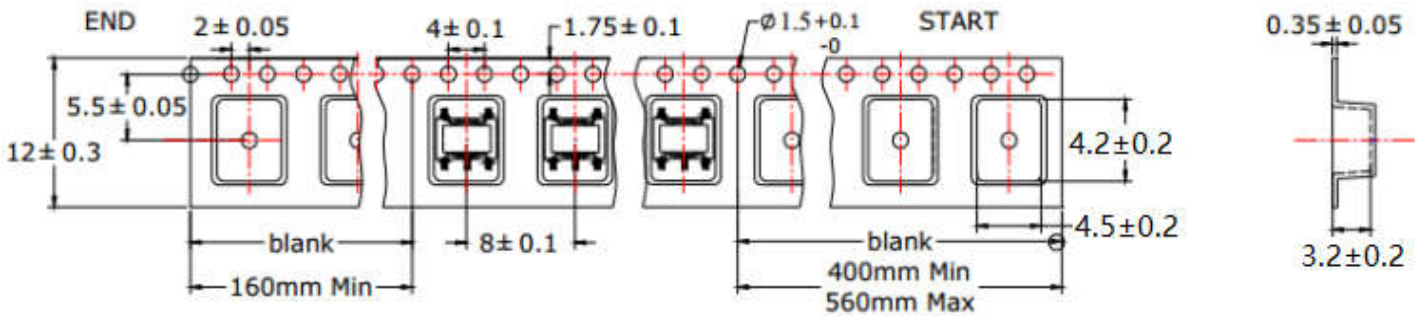
Pin configuration

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

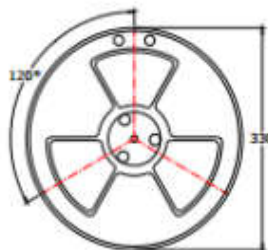
Application circuit :

 Electrical Specifications: $T_A=25^{\circ}\text{C}$ $Z_0=50\Omega$

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss(out1)	500-2500 MHz	dB	—	2.0	2.5
Main line Loss(out2)	500-2500 MHz	dB	—	3.0	3.5
Amplitude Balance	500-2500 MHz	dB	—	2.0	± 2.5
Phase Balance	500-2500 MHz	$^{\circ}$	—	± 8.0	± 12.0
Input Return Loss	500-2500 MHz	dB	10.0	13.0	—

Main line Loss(out1)

Frequency (MHz)
Main line Loss(out2)

Frequency (MHz)
Amplitude Balance

Frequency (MHz)
Phase Balance

Frequency (MHz)
Input Return Loss

Frequency (MHz)
Sdd22

Frequency (MHz)

Recommended Soldering Temperature Graph:
Typical RoHS Reflow Profile

Packing Dimension For Caeier Tape(UNIT:mm):


QUANTITY
2000PCS/Reel
4Reels/Middle Carton Middle Carton:
4 Middle Cartons/Big Carton
32000PCS/ Big Carton



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

