

# RF Balun Transformer

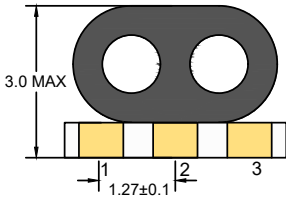
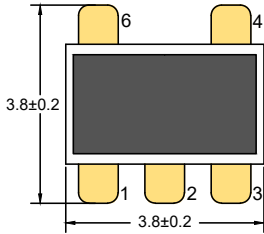
## B013-458PT-3713-H315

2021-03-09 Rev. 1

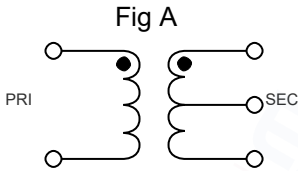


75Ω 1:1 CT Flux Coupled Transformer 1-300 MHz

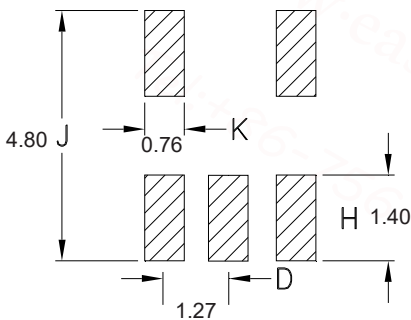
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

Input	4
Output 1	3
Output 2	1
Ground	6
Centre tap (Ground)	2

### Features

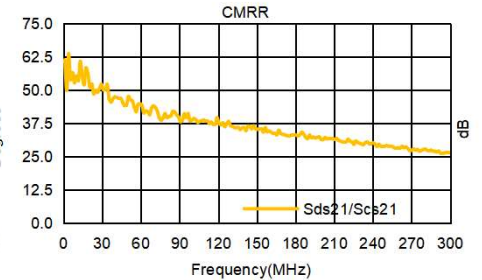
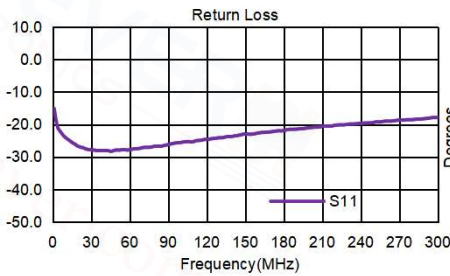
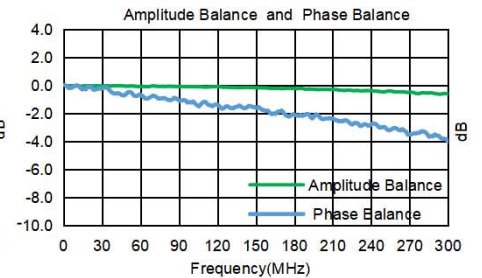
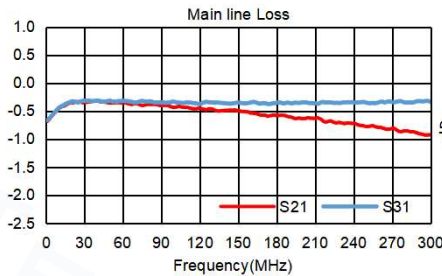
- RF Power, 2.0W Max
- DC current: 30mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range:-40 C to +85 C
- Storage temperature range: -55 C to +100 C

### Applications

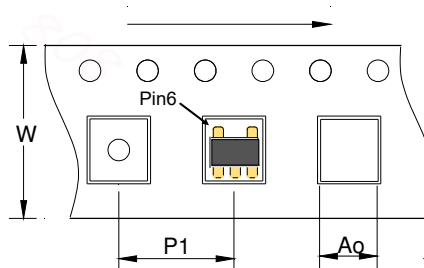
- For Docsis 3.0 & 3.1 Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin4-3)	1-300MHz	dB	—	0.6	1.2
Main line Loss (Pin4-1)	1-300MHz	dB	—	0.4	1.0
Amplitude Balance	1-300MHz	dB	0.0	0.4	1.2
Phase Balance	1-300MHz	°	0.0	3.0	10.0
Input Return Loss(Pin4)	1-300MHz	dB	16.0	20.0	—
CMRR	1-300MHz	dB	20.0	30.0	—



### Carrier Tape Orientation



### Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	2000
Reel Size	mm	330
Tape Width	mm	12.00
Pitch	mm	8.00
Ao	mm	4.50
Bo	mm	4.50
Ko	mm	3.50