

# RF Balun Transformer

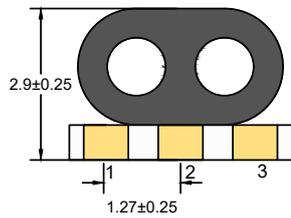
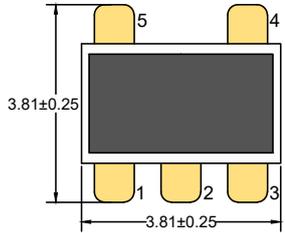
## AWE3535-F013A59



50Ω 1:1 Transmission Line Transformer

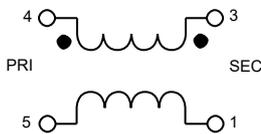
3-3000MHz

### Outline Drawing(mm)

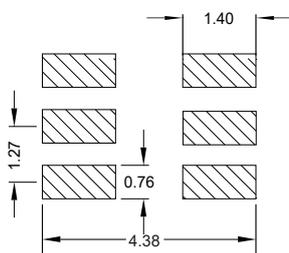


### Electrical structure

Fig E



### Recommended layout(mm)



### Pin Connections

Input	4
Output 1	3
Output 2	1
Ground	5
Not Used	2

### Features

- RF Power, 2W Max
- DC current: 500mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40 C to +85 C
- Storage temperature range: -55 C to +105 C



### Applications

- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

### Electrical Specifications: TA=25°C, 0dBm, Z0=50Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin4-3)	3-1800MHz	dB	—	0.6	1.0
	1800-2400MHz	dB	—	1.1	2.0
	2400-2700MHz	dB	—	1.6	3.0
	2700-3000MHz	dB	—	2.2	3.5
Main line Loss (Pin4-1)	3-1800MHz	dB	—	0.7	1.0
	1800-2400MHz	dB	—	0.5	2.0
	2400-2700MHz	dB	—	1.0	3.0
	2700-3000MHz	dB	—	1.5	3.5
Amplitude Balance	3-20MHz	dB	—	0.6	1.0
	20-3000MHz	dB	—	0.6	1.0
Phase Balance	3-3000MHz	°	—	4.0	10.0
Input Return Loss(Pin4)	3-2700MHz	dB	10.0	14.0	—
	2700-3000MHz	dB	8.0	10.0	—

