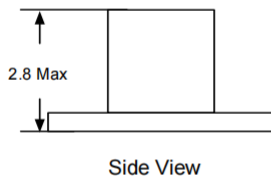
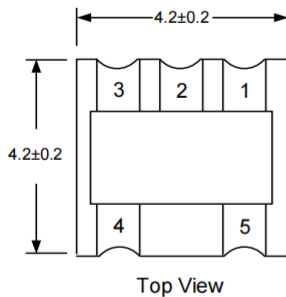
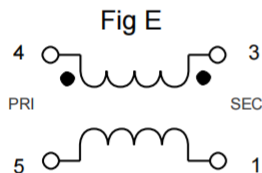


## 50Ω 1:1 Transmission Line Transformer 3-3000Mhz

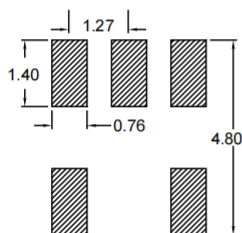
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

| Pin | Name          |
|-----|---------------|
| 1   | Secondary     |
| 2   | NC            |
| 3   | Secondary Dot |
| 4   | Primary Dot   |
| 5   | Primary       |

### Features

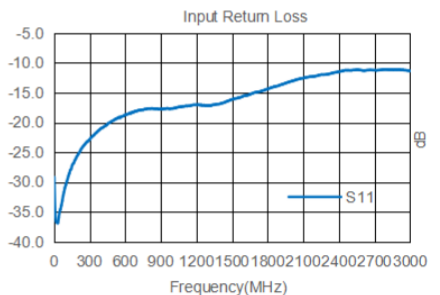
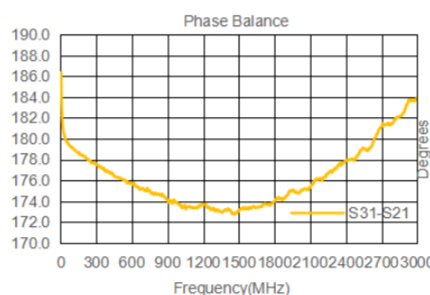
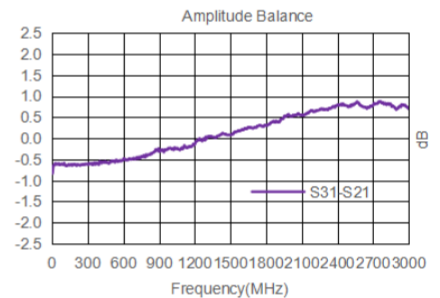
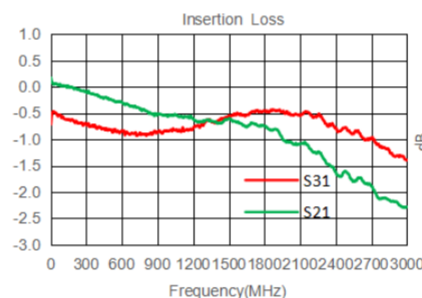
- RF Power, 2.0W
- DC Current, 250 mA
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C
- Equivalent to RFXF9503 & TC1-1-13M+

### Applications

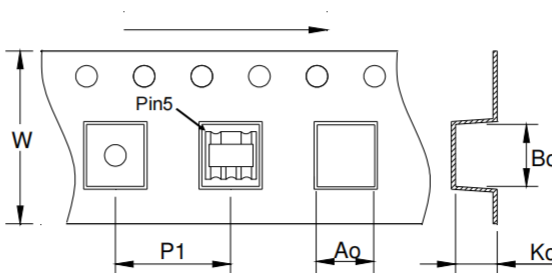
- balanced to unbalanced transformation
- push-pull amplifiers
- PCS/DCS
- MMDS

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

| Parameter         | Test Conditions | Units | Min | Typ  | Max  |
|-------------------|-----------------|-------|-----|------|------|
| Insertion Loss    | 3-1800MHz       | dB    | —   | 0.7  | 1.0  |
|                   | 3-2400MHz       | dB    | —   | 1.5  | 2.0  |
|                   | 3-3000MHz       | dB    | —   | 2.4  | 3.5  |
| Amplitude Balance | 3-3000MHz       | dB    | —   | 0.5  | 1.0  |
| Phase Balance     | 3-3000MHz       | °     | —   | 5.0  | 15.0 |
| Input Return Loss | 3-3000MHz       | dB    | 8.0 | 18.0 | —    |



### 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    | 3.00  |