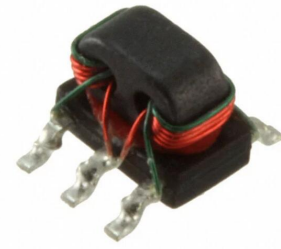


RF Directional Coupler

YB4F-617PT-1001-D081

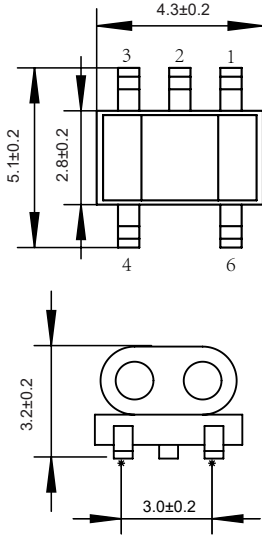
2020-04-07 Rev. 0



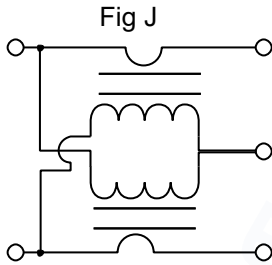
75Ω 10dB Directional Coupler

5-1250MHz

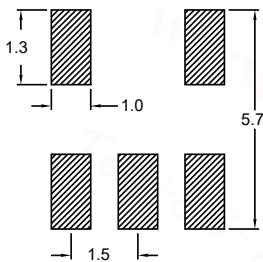
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

| | |
|-----------|---|
| Input | 1 |
| Coupling | 3 |
| Output | 6 |
| Ground | 2 |
| Isolation | 4 |

Features

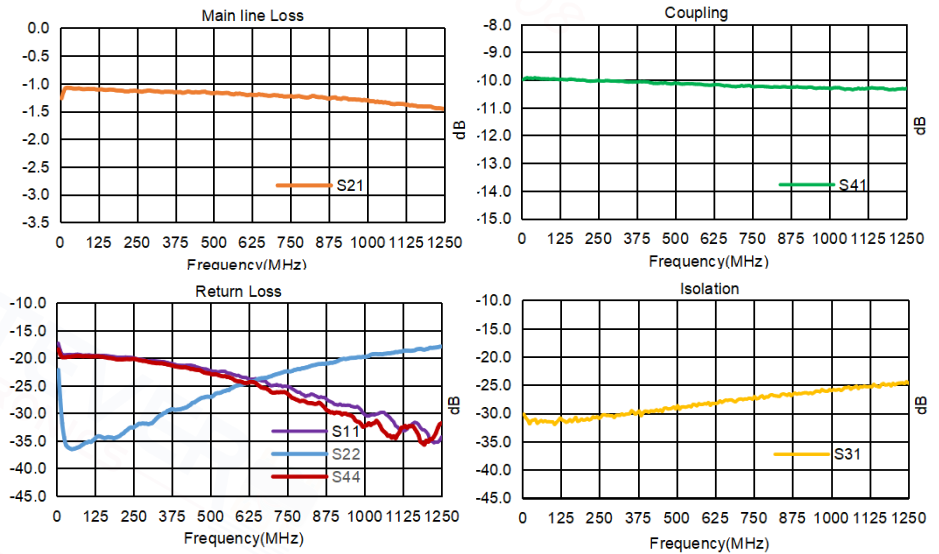
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

Applications

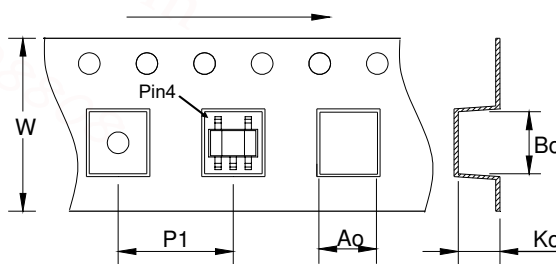
- For catv
- For broadband and wireless communications

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

| Parameter | Test Conditions | Units | Min | Typ | Max |
|----------------------------|-----------------|-------|------|------|------|
| Coupling(pin1-3) | 5-1250MHz | dB | 9.0 | 10.0 | 11.0 |
| Main line Loss(pin1-6) | 5-1250MHz | dB | — | 1.2 | 2.0 |
| Input Return Loss(pin 1) | 5-1250MHz | dB | 16.0 | 20.0 | — |
| Coupling Return Loss(pin3) | 5-1250MHz | dB | 16.0 | 20.0 | — |
| Output Return Loss(pin6) | 5-1250MHz | dB | 16.0 | 20.0 | — |
| Isolation(pin1-4) | 5-1250MHz | dB | 16.0 | 25.0 | — |



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 | 5.70 |
| Ko | mm | 3.60 |