

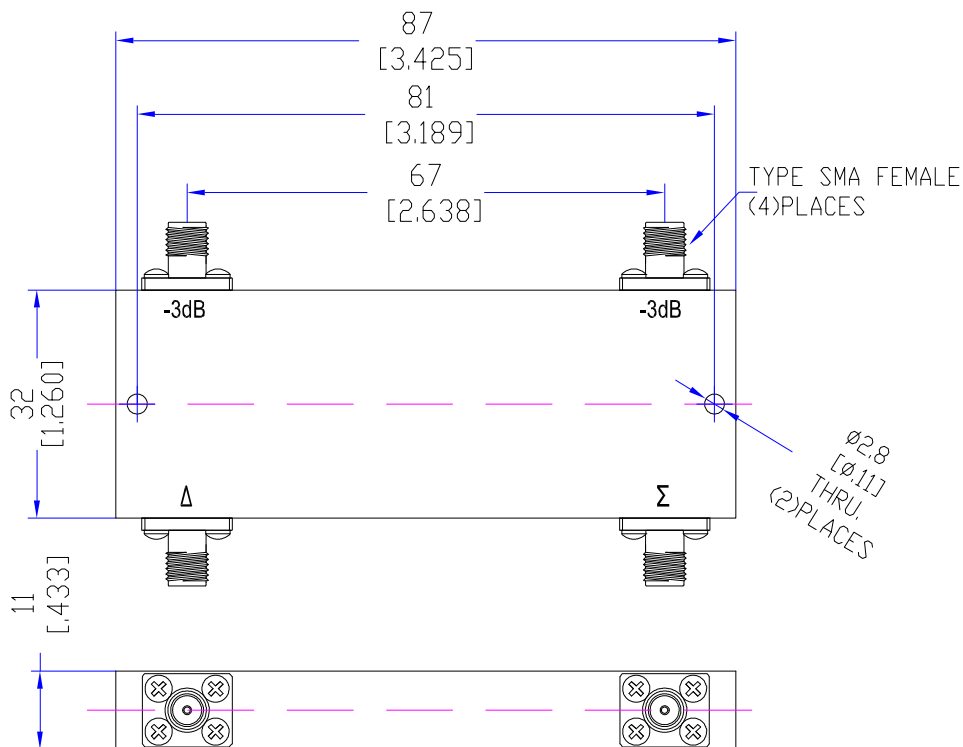
## Model THC0809B

### Features

Excellent phase & amplitude balance  
 Low Insertion Loss & VSWR  
 High Isolation

| Technical Data Sheet        |                              |                       |                              |
|-----------------------------|------------------------------|-----------------------|------------------------------|
| Frequency Range             | 0.81~0.96GHz                 | Finish                | Painted Blue_ RAL #5007      |
| Nominal Split               | 3.01dB                       | Connector Body        | Passivated Stainless Steel   |
| Insertion Loss              | ≤0.35dB                      | Housing               | Aluminum, 6061 T6            |
| Isolation                   | ≥22dB                        |                       | Clear Chem Conversion Film   |
| Amplitude Balance           | ≤±0.5dB                      | Connector Pin         | Beryllium Copper, Gold Plate |
| Phase Balance               | ≤±5°                         | Solder                | Lead Free, RoHS Compliant    |
| VSWR                        | ≤1.25:1                      | Operating Temperature | -55~+85°C                    |
| <sup>1</sup> Power Handling | Average ≤20Watt<br>Peak ≤1KW | Operating Humidity    | Up to 95%, Non-Condensing    |
| Impedance                   | 50Ω                          | Weight                | 80g                          |
| Port Connectors             | SMA-Female                   |                       |                              |

<sup>1</sup>Power Handling guaranteed when load's VSWR within 1.50:1.

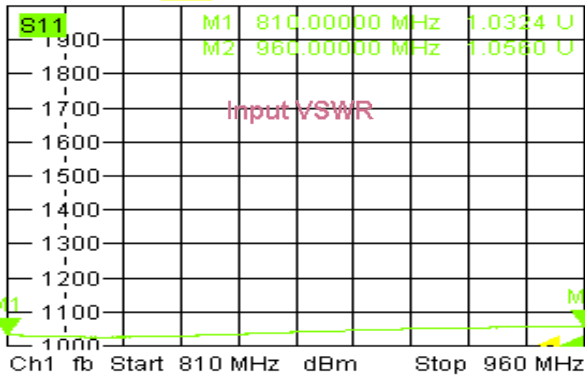


## Typical Performance

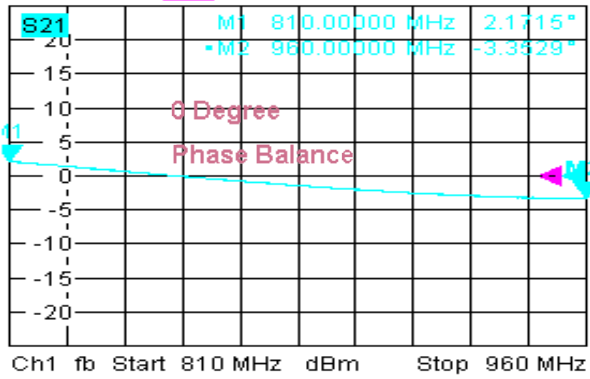
### 1. Insertion Loss, Amplitude & Phase Balance, VSWR<sub>in</sub> 0°



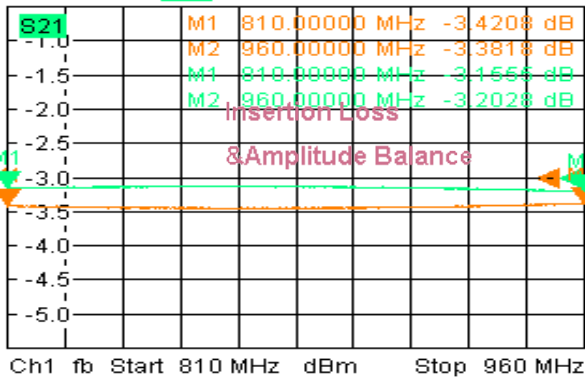
Trc1 **S11** SWR 100 mU/ Ref 1 U Cal  
Mem5[Trc1] **S21** SWR 100 mU/ Ref 1 U Invis



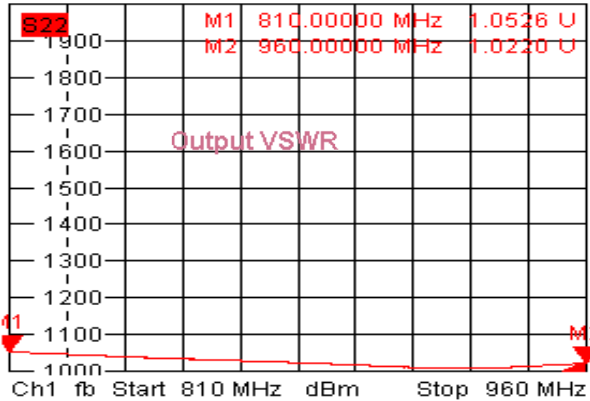
Trc2 **S21** Phase unwrap 5° / Ref 0° C  
Mem6[Trc2] **S21** Phase unwrap 5° / Ref 0° Ir



Trc3 **S21** dB Mag 0.5 dB / Ref -3 dB C  
Mem7[Trc3] **S21** dB Mag 0.5 dB / Ref -3 dB



Trc4 **S22** SWR 100 mU/ Ref 1 U Cal 4



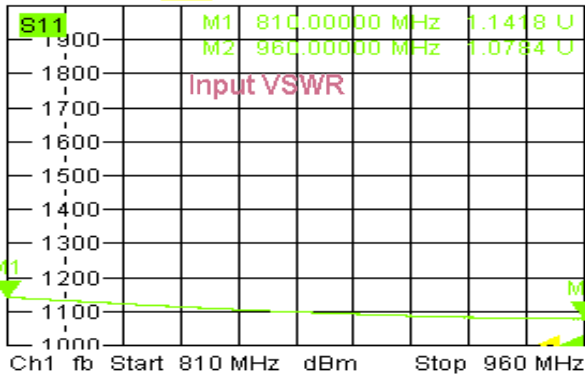
4/16/2019, 1:24 AM



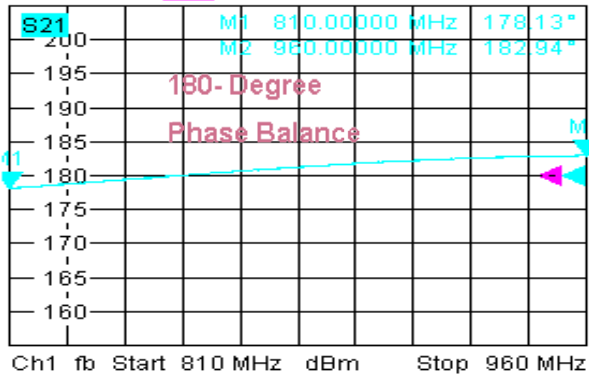
2. Insertion Loss, Amplitude/ Phase Balance, VSWR \_ 180°



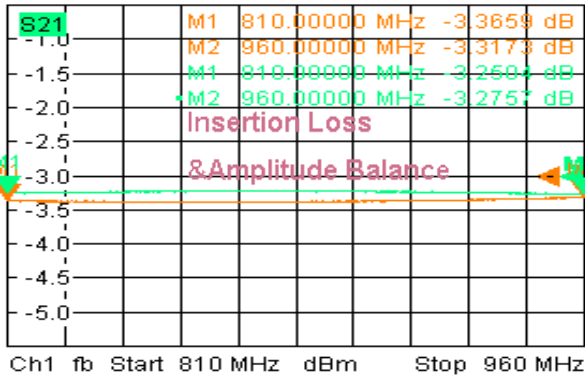
Trc1 **S11** SWR 100 mU/ Ref 1 U Cal  
 Mem5[Trc1] **S21** SWR 100 mU/ Ref 1 U Invis



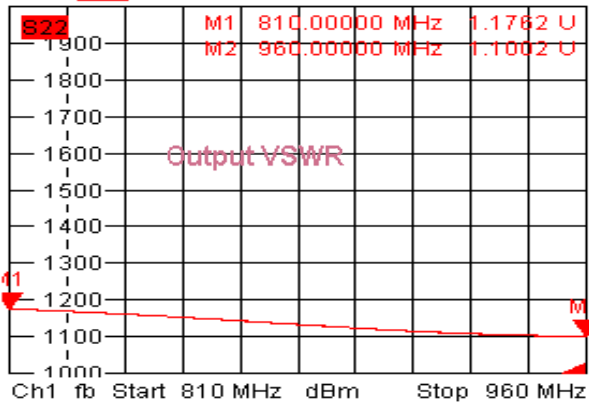
Trc2 **S21** Phase unwrap 5° / Ref 180°  
 Mem6[Trc2] **S21** Phase unwrap 5° / Ref 180°



Trc3 **S21** dB Mag 0.5 dB / Ref -3 dB C  
 Mem7[Trc3] **S21** dB Mag 0.5 dB / Ref -3 dB



Trc4 **S22** SWR 100 mU/ Ref 1 U Cal 4



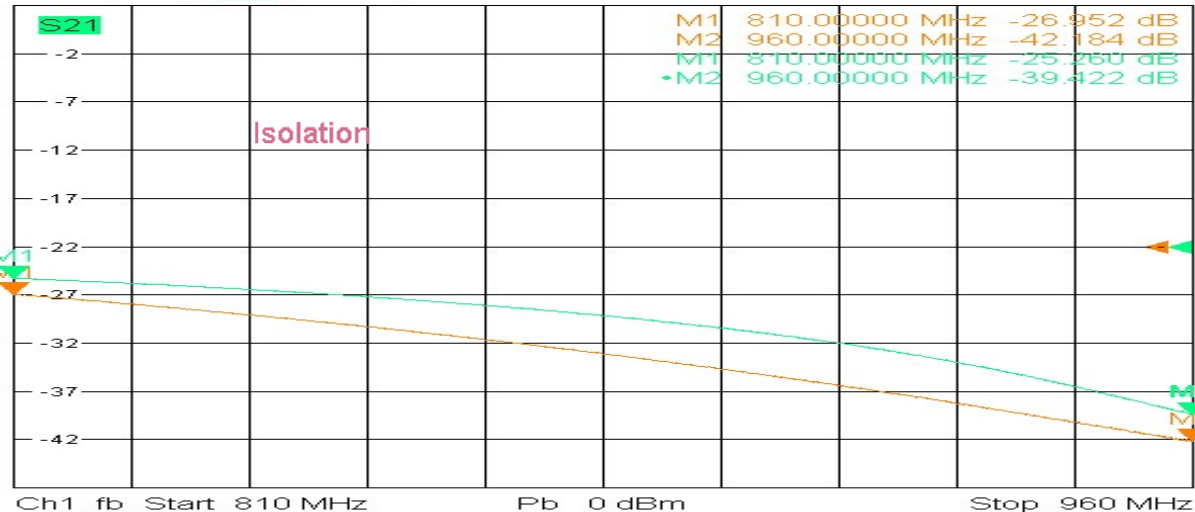
4/16/2019, 1:24 AM

3. Isolation



Trc3 **S21** dB Mag 5 dB / Ref -22 dB Cal  
 Mem7[Trc3] **S21** dB Mag 5 dB / Ref -22 dB

3 (Max)



4/16/2019, 1:26 AM

