

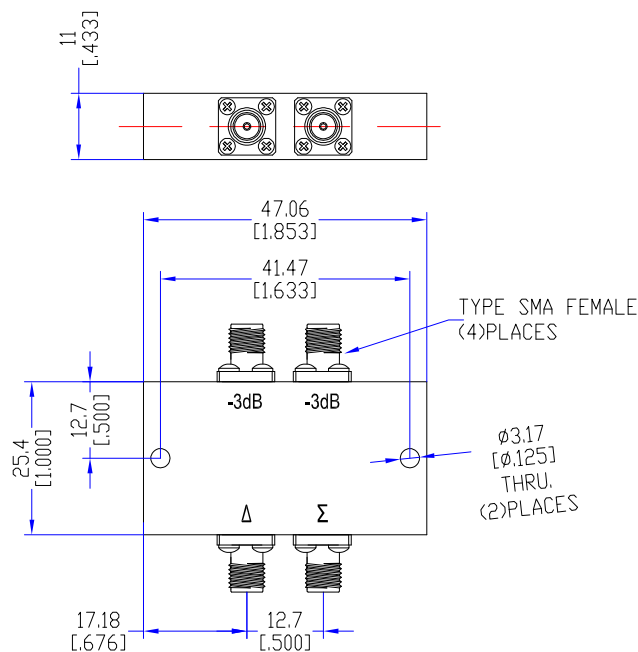
## Model THC4450B

### Features

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

Technical Data Sheet			
Frequency Range	4.4~5.0GHz	Finish	Painted Black
Nominal Split	3.01dB	Connector Body	Passivated Stainless Steel
Insertion Loss	≤0.5dB	Housing	Aluminum, 6061 T6
Isolation	≥20dB		Clear Chem Conversion Film
Amplitude Balance	≤±0.4dB	Connector Pin	Beryllium Copper, Gold Plate
Phase Balance	≤±4°	Solder	Lead Free, RoHS Compliant
VSWR	≤1.25:1	Operating Temperature	-55~+85°C
<sup>1</sup> Power Handling	Average ≤50Watt Peak ≤1KW	Operating Humidity	Up to 95%, Non-Condensing
Impedance	50Ω	Weight	50g
Port Connectors	SMA-Female		

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

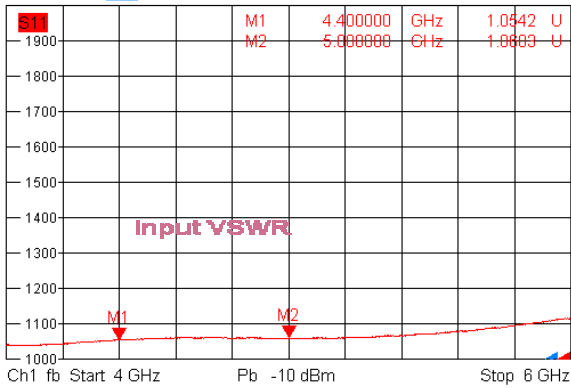


## Typical Performance

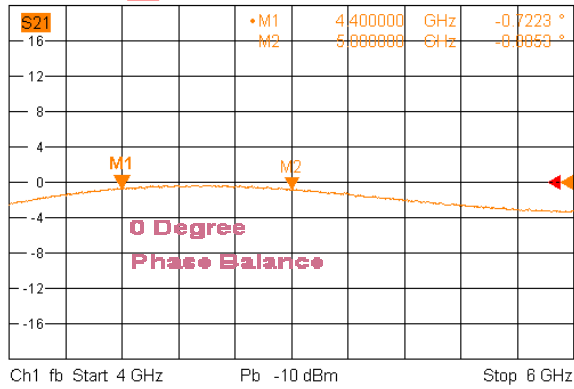
### 1. Insertion Loss, Amplitude & Phase Balance, VSWR<sub>0°</sub>



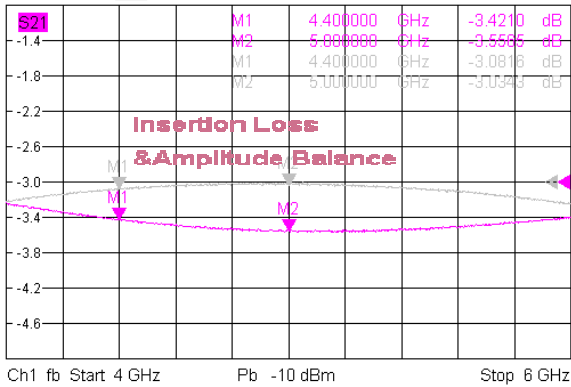
Trc4 S11 SWR 100 mU/ Ref 1 U Cal 1  
Mem9[Trc4] S11 SWR 100 mU/ Ref 1 U Invisible



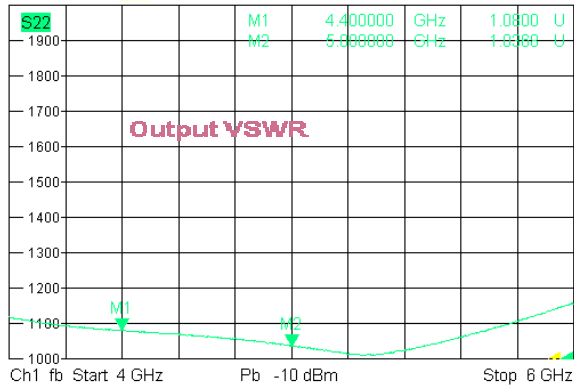
Trc13 S21 Phase unwrap 4° / Ref 0° Cal Math 2  
Mem14[Trc13] S21 Phase unwrap 4° / Ref 0° Invisible



Trc6 S21 dB Mag 0.4 dB / Ref -3 dB Cal 3  
Mem10[Trc6] S21 dB Mag 0.4 dB / Ref -3 dB



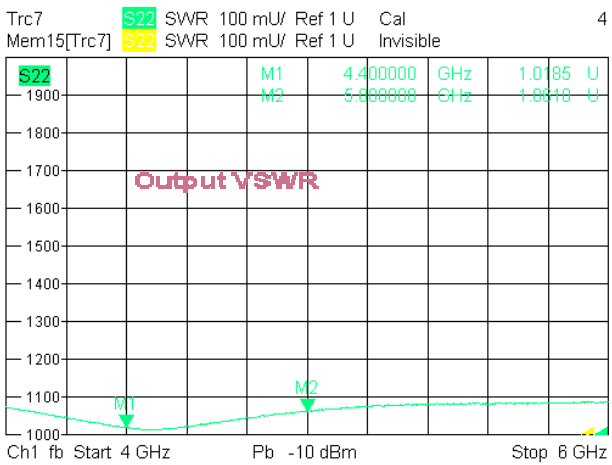
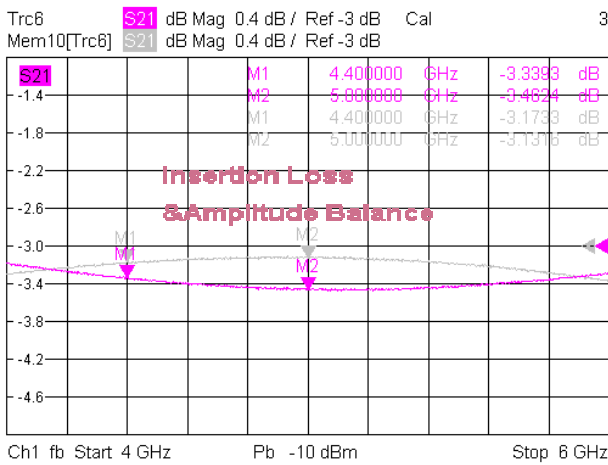
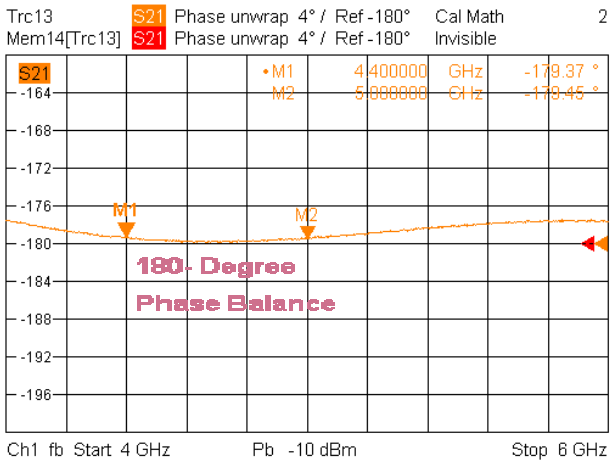
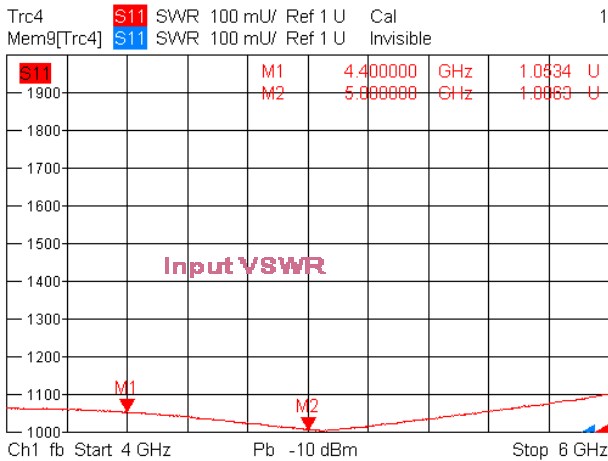
Trc7 S22 SWR 100 mU/ Ref 1 U Cal 4  
Mem15[Trc7] S22 SWR 100 mU/ Ref 1 U Invisible



12/20/2022, 11:08 AM

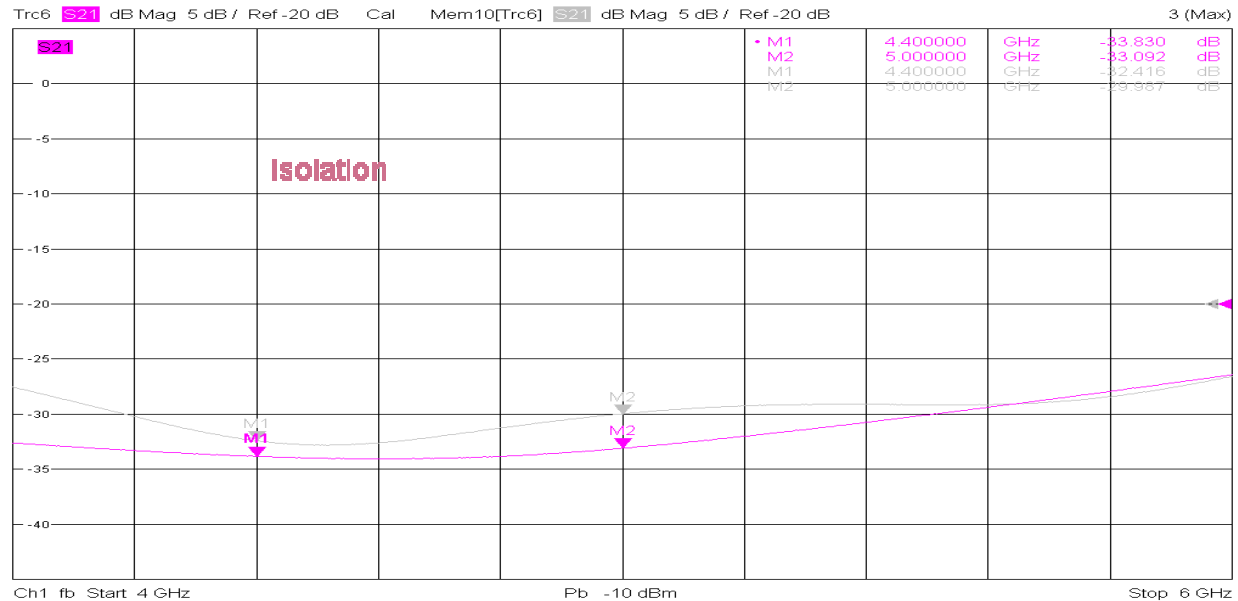


## 2. Insertion Loss, Amplitude/ Phase Balance, VSWR \_ 180°



12/20/2022, 11:09 AM

## 3. Isolation



12/20/2022, 11:10 AM

