

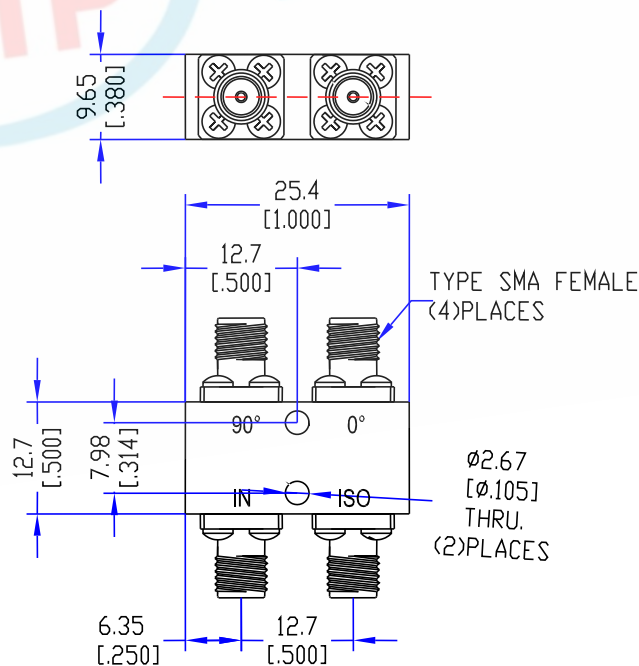
## Model THC4080A1

### Features

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

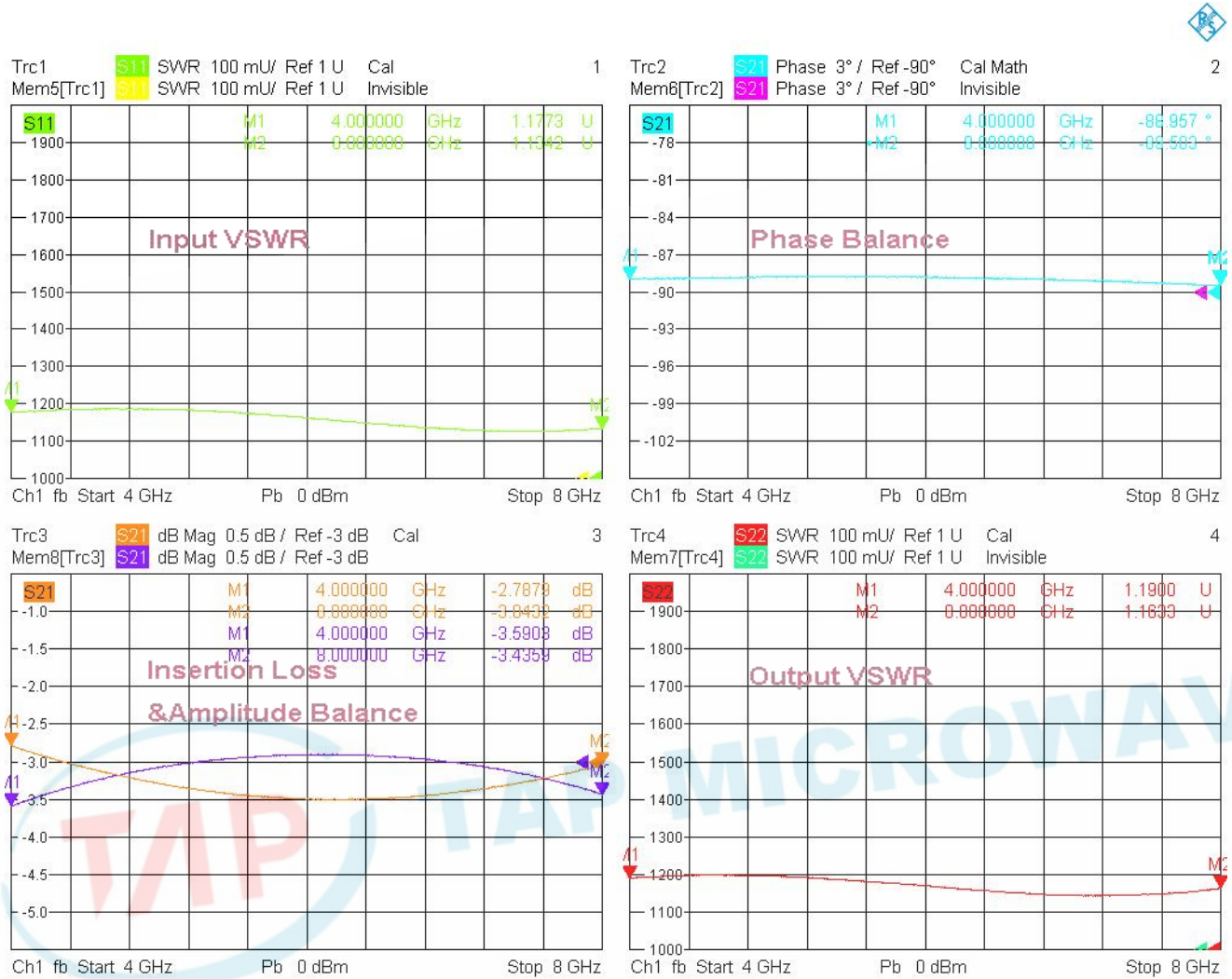
| Technical Data Sheet        |                              |                       |                              |
|-----------------------------|------------------------------|-----------------------|------------------------------|
| Frequency Range             | 4~8GHz                       | Finish                | Yellow Iridite               |
| Nominal Split               | 3.01dB                       | Connector Body        | Passivated Stainless Steel   |
| Insertion Loss              | ≤0.35dB                      | Housing               | Aluminum, 6061 T6            |
| Isolation                   | ≥20dB                        |                       | Clear Chem Conversion Film   |
| Amplitude Balance           | ≤±0.5dB                      | Connector Pin         | Beryllium Copper, Gold Plate |
| Phase Balance               | ≤±3°                         | Solder                | Lead Free, RoHS Compliant    |
| VSWR                        | ≤1.25:1                      | Operating Temperature | -55~+85°C                    |
| <sup>1</sup> Power Handling | Average ≤50Watt<br>Peak ≤3KW | Operating Humidity    | Up to 95%, Non-Condensing    |
| Impedance                   | 50Ω                          | Weight                | 30g                          |
| 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\_90°

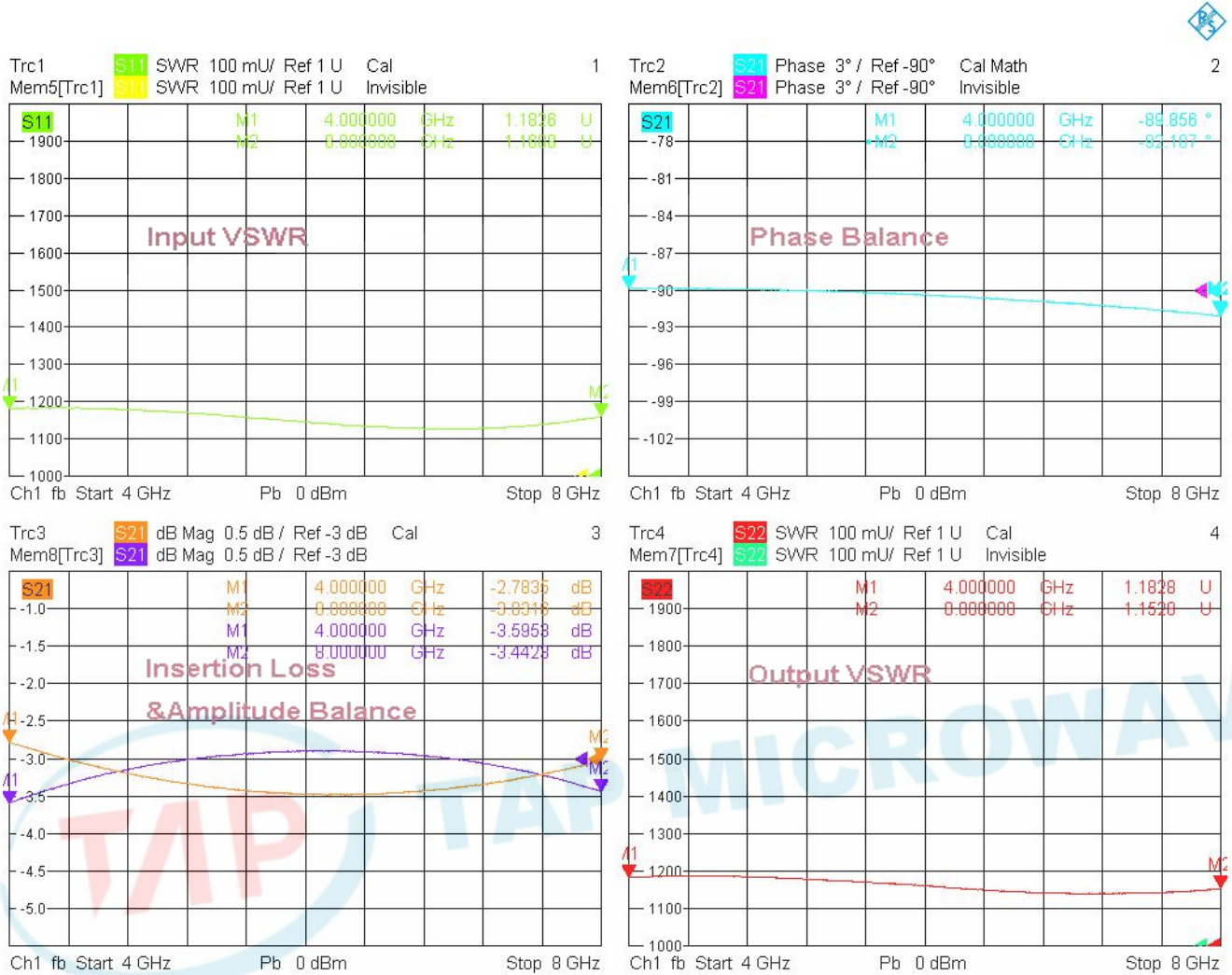


9/30/2022, 9:47 AM



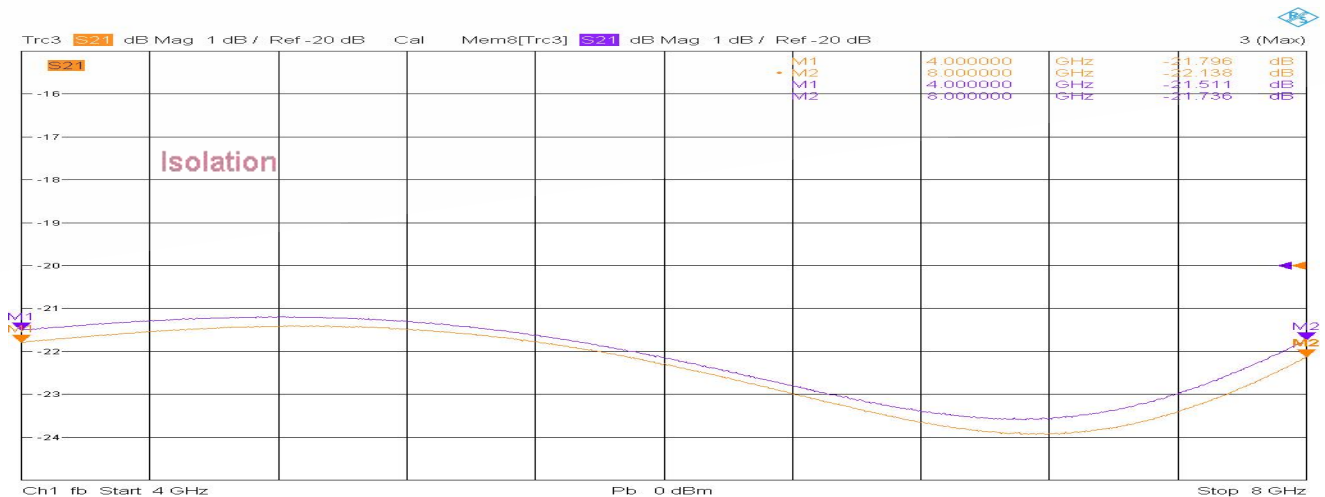
## Typical Performance

### 2. Insertion Loss, Amplitude & Phase Balance, VSWR<sub>90°</sub>



9/30/2022, 9:48 AM

### 3. Isolation



9/30/2022, 9:46 AM

