

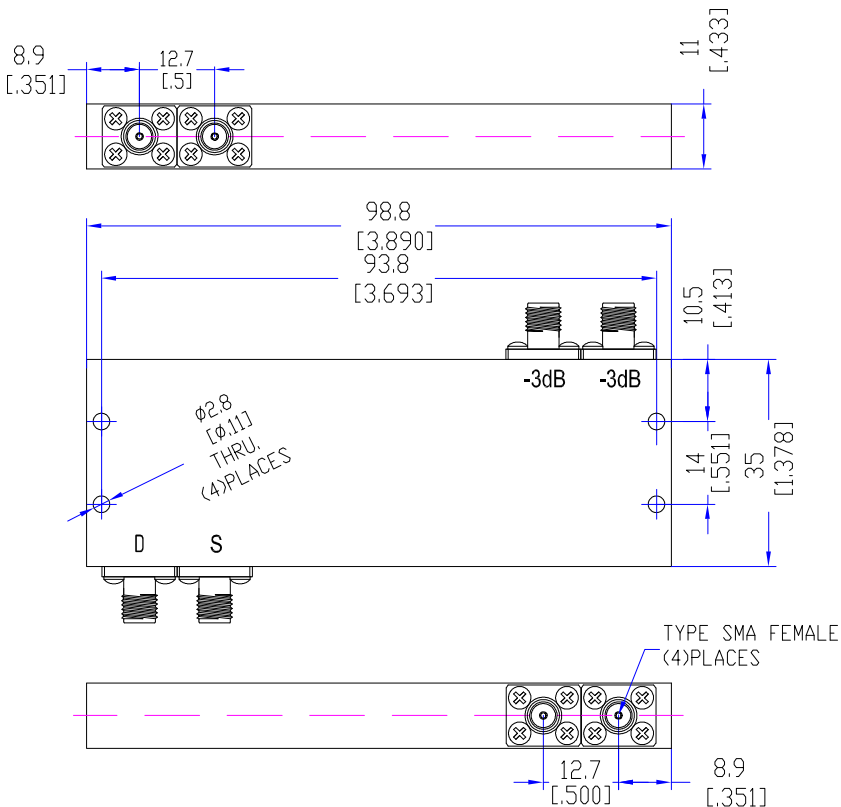
## Model THC2080B

### Features

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

Technical Data Sheet			
Frequency Range	2~8GHz	Finish	Painted Blue_ RAL #5007
Nominal Split	3.01dB	Connector Body	Passivated Stainless Steel
Insertion Loss	≤1.6dB	Housing	Aluminum, 6061 T6
Isolation	≥18dB		Clear Chem Conversion Film
Amplitude Balance	≤±0.8dB	Connector Pin	Beryllium Copper, Gold Plate
Phase Balance	≤±9°	Solder	Lead Free, RoHS Compliant
VSWR	≤1.50:1	Operating Temperature	-55~+85°C
<sup>1</sup> Power Handling	Average ≤50Watt Peak ≤1KW	Operating Humidity	Up to 95%, Non-Condensing
Impedance	50Ω	Weight	110g
Port Connectors	SMA-Female		

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

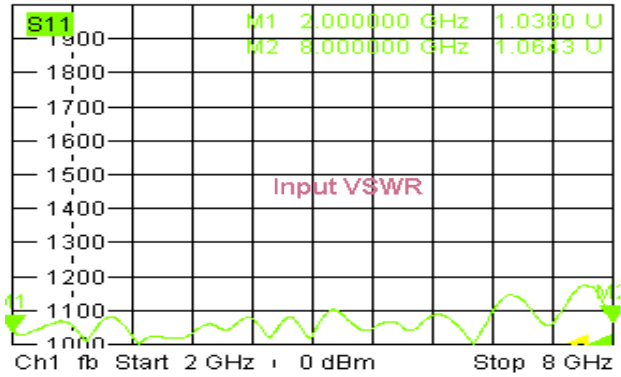


## Typical Performance

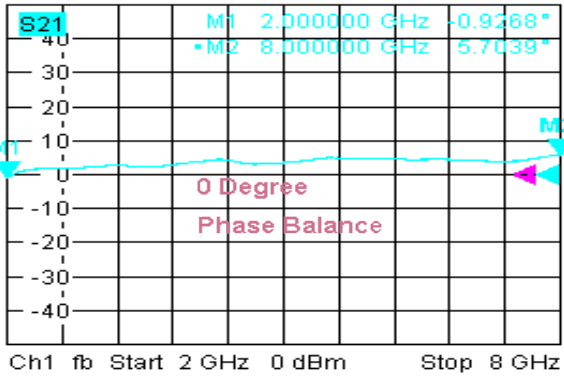
### 1. Insertion Loss, Amplitude & Phase Balance, VSWR<sub>0°</sub>



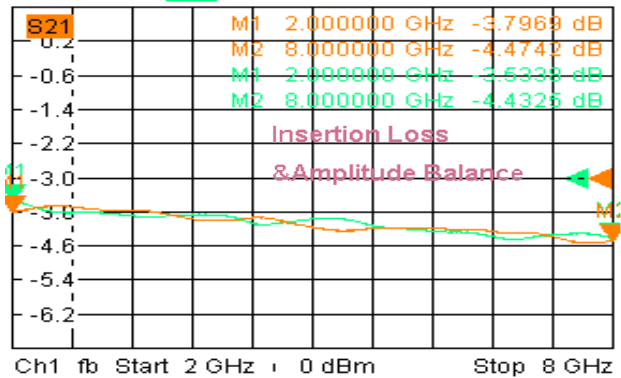
Trc1 Mem5[Trc1] S11 SWR 100 mU/ Ref 1 U Cal Invisib



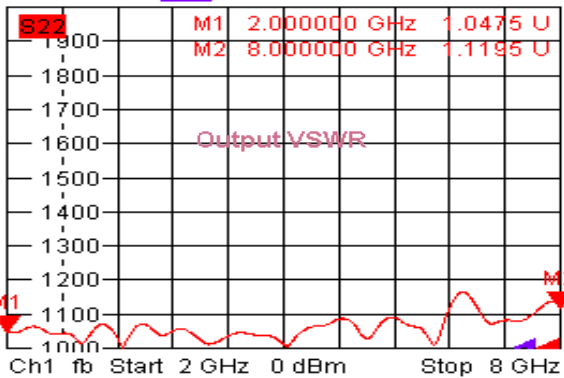
Trc2 Mem6[Trc2] S21 Phase unwrap 10° / Ref 0° S21 Phase unwrap 10° / Ref 0°



Trc3 Mem7[Trc3] S21 dB Mag 0.8 dB / Ref -3 dB S21 dB Mag 0.8 dB / Ref -3 dB Cal



Trc4 Mem8[Trc4] S22 SWR 100 mU/ Ref 1 U S22 SWR 100 mU/ Ref 1 U Cal Invisib



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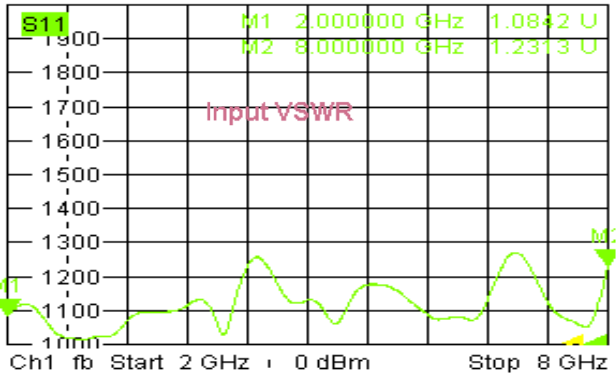


## Typical Performance

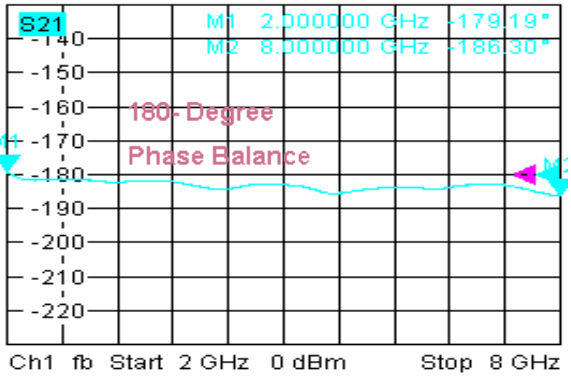
### 2. Insertion Loss, Amplitude & Phase Balance, VSWR \_ 180°



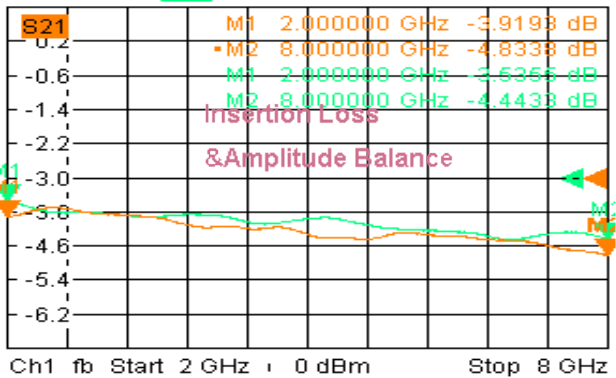
Trc1 **S11** SWR 100 mU/ Ref 1 U Cal  
Mem5[Trc1] **S11** SWR 100 mU/ Ref 1 U Invisib



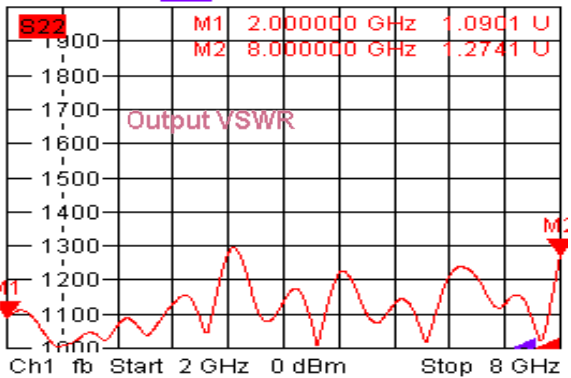
Trc2 **S21** Phase unwrap 10° / Ref-18  
Mem6[Trc2] **S21** Phase unwrap 10° / Ref-18



Trc3 **S21** dB Mag 0.8 dB / Ref-3 dB Cal  
Mem7[Trc3] **S21** dB Mag 0.8 dB / Ref-3 dB



Trc4 **S22** SWR 100 mU/ Ref 1 U Ca  
Mem8[Trc4] **S22** SWR 100 mU/ Ref 1 U In



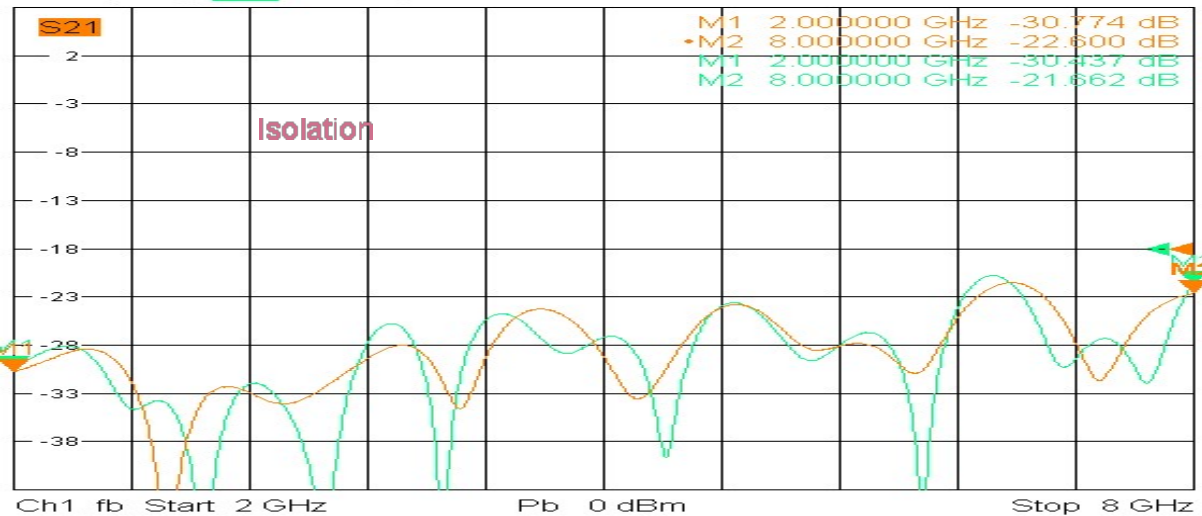
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### 3. Isolation



Trc3 **S21** dB Mag 5 dB / Ref -18 dB Cal  
Mem7[Trc3] **S21** dB Mag 5 dB / Ref -18 dB

3 (Max)



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