

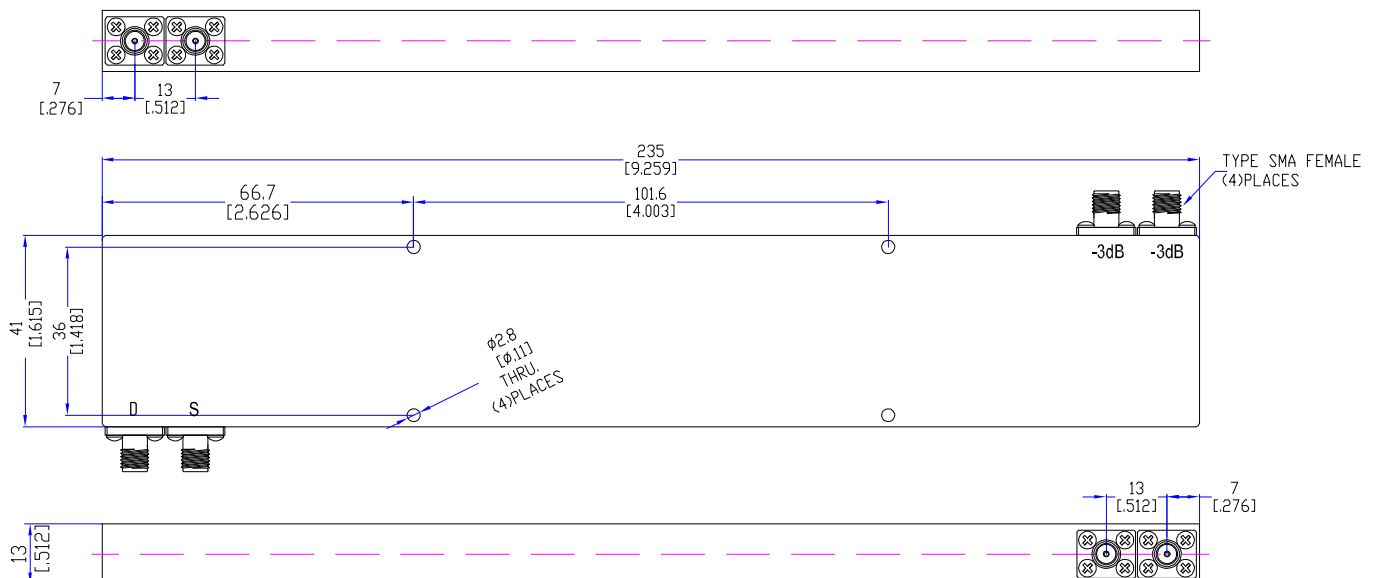
## Model THC0520B

### Features

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

Technical Data Sheet			
Frequency Range	0.5~2.0GHz	Finish	Painted Blue_ RAL #5007
Nominal Split	3.01dB	Connector Body	Passivated Stainless Steel
Insertion Loss	≤1.2dB	Housing	Aluminum, 6061 T6
Isolation	≥18dB		Clear Chem Conversion Film
Amplitude Balance	≤±0.8dB	Connector Pin	Beryllium Copper, Gold Plate
Phase Balance	≤±13°	Solder	Lead Free, RoHS Compliant
VSWR	≤1.40:1	Operating Temperature	-55~+85°C
<sup>1</sup> Power Handling	Average ≤50Watt Peak ≤1KW	Operating Humidity	Up to 95%,Non- Condensing
Impedance	50Ω	Weight	350g
Port Connectors	SMA-Female		

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

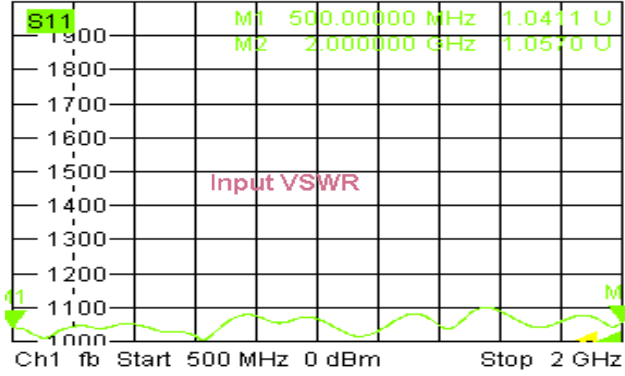


## Typical Performance

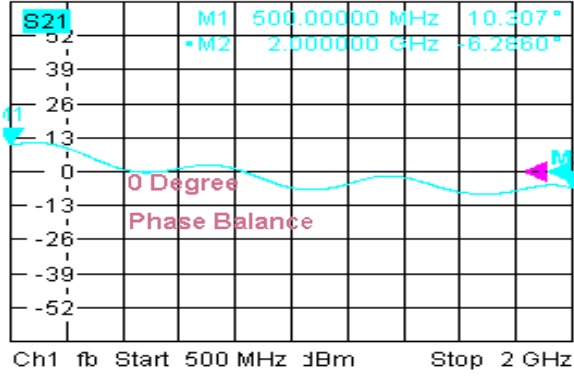
### 1. Insertion Loss, Amplitude & Phase Balance, VSWR<sub>0°</sub>



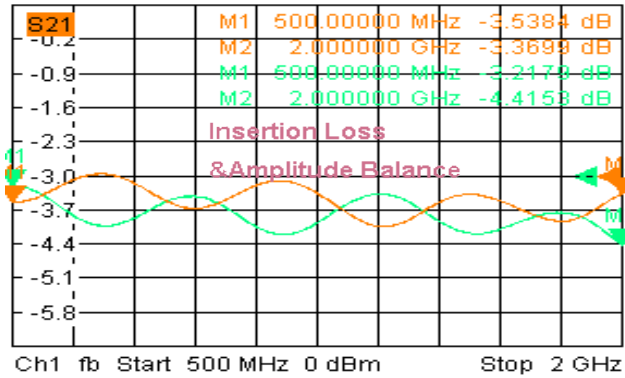
Trc1 **S11** SWR 100 mU/ Ref1 U Cal int  
Mem5[Trc1] **S11** SWR 100 mU/ Ref1 U Invisib



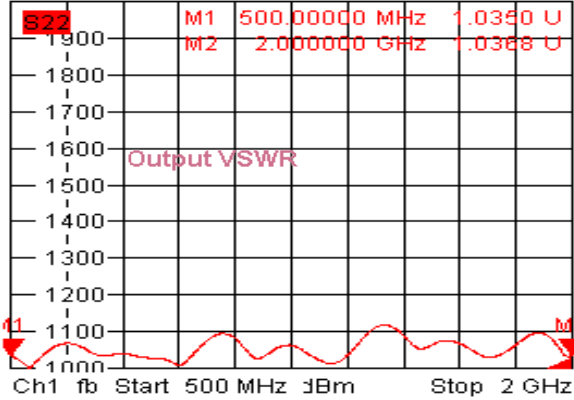
Trc2 **S21** Phase unwrap 13° / Ref 0°  
Mem6[Trc2] **S21** Phase unwrap 13° / Ref 0°



Trc3 **S21** dB Mag 0.7 dB / Ref-3 dB Cal  
Mem7[Trc3] **S21** dB Mag 0.7 dB / Ref-3 dB



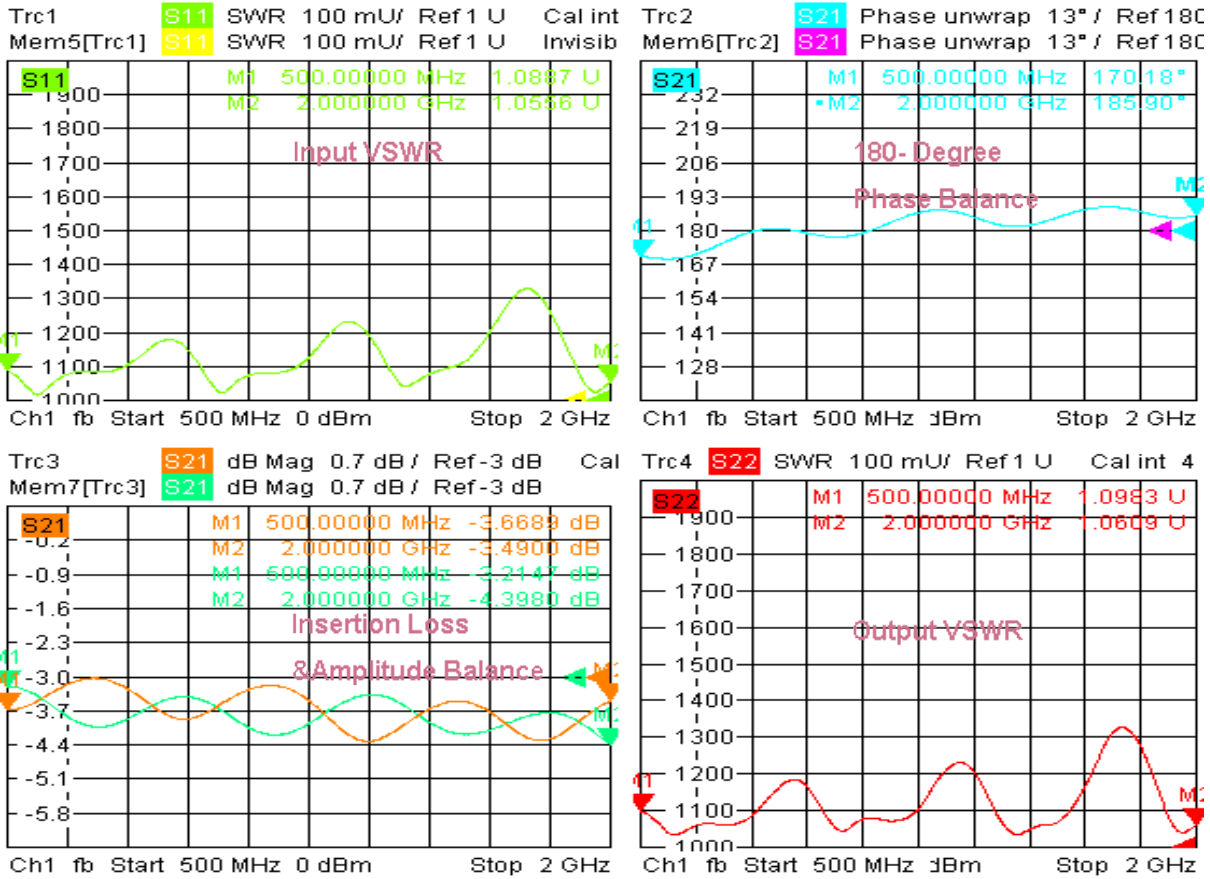
Trc4 **S22** SWR 100 mU/ Ref1 U Cal int 4



8/31/2019, 3:22 AM

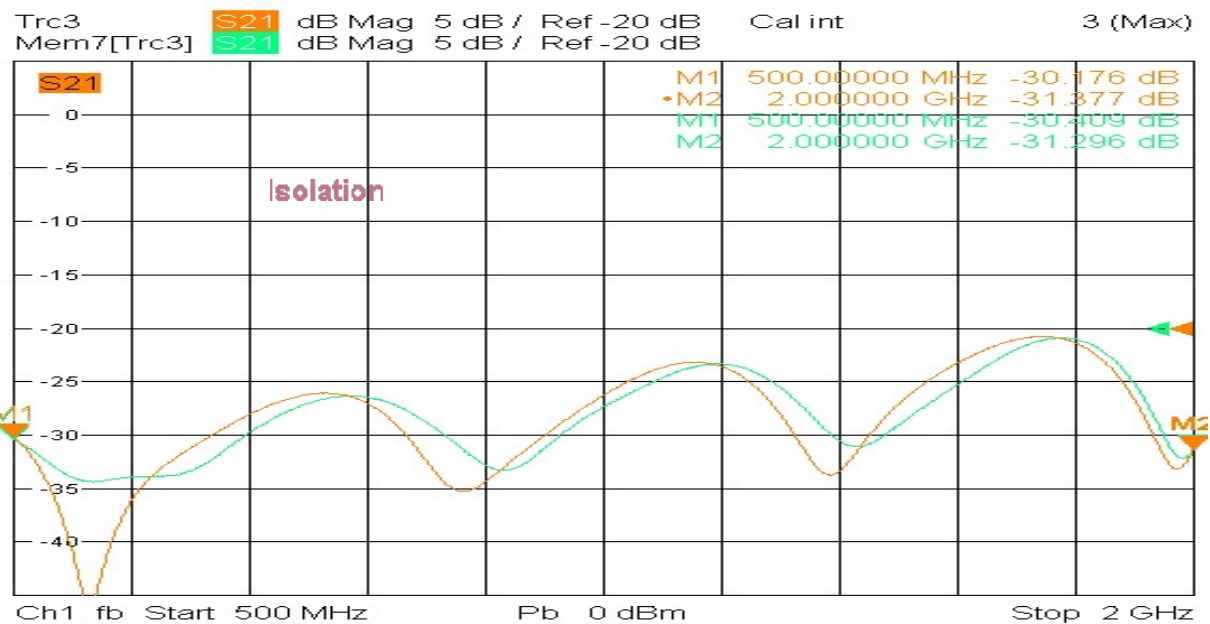


2. Insertion Loss, Amplitude & Phase Balance, VSWR \_ 180°



8/31/2019, 3:21 AM

3. Isolation



8/31/2019, 3:23 AM

