

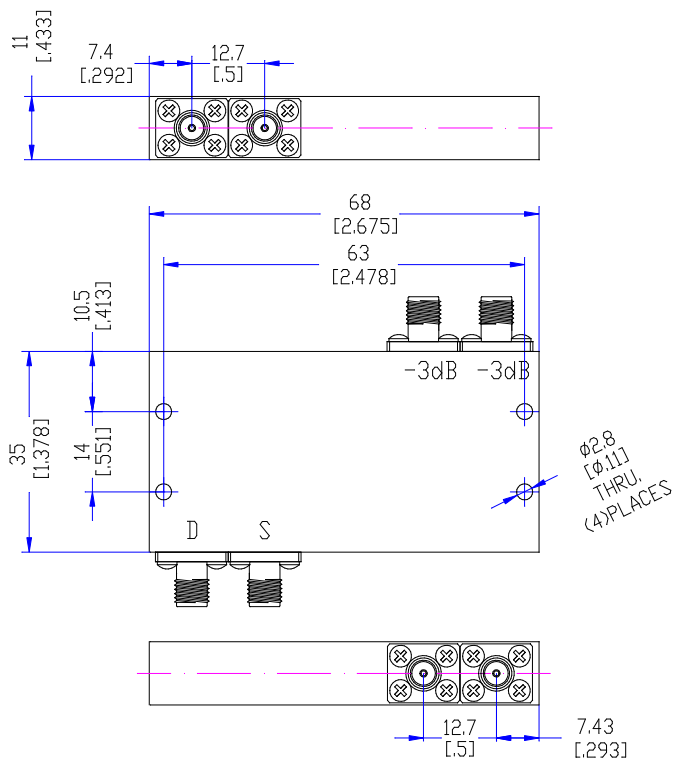
Model THC20180B1

Features

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

Technical Data Sheet			
Frequency Range	2~18GHz	Finish	Painted Blue_ RAL #5007
Nominal Split	3.01dB	Connector Body	Passivated Stainless Steel
Insertion Loss	≤2.8dB	Housing	Aluminum, 6061 T6
Isolation	≥18dB		Clear Chem Conversion Film
Amplitude Balance	≤±0.8dB	Connector Pin	Beryllium Copper, Gold Plate
Phase Balance	≤±14°	Solder	Lead Free, RoHS Compliant
VSWR	≤1.60:1	Operating Temperature	-55~+85°C
¹ Power Handling	Average ≤50Watt Peak ≤1KW	Operating Humidity	Up to 95%, Non-Condensing
Impedance	50Ω	Weight	110g
Port Connectors	SMA-Female		

¹Power Handling guaranteed when load's VSWR within 1.50:1

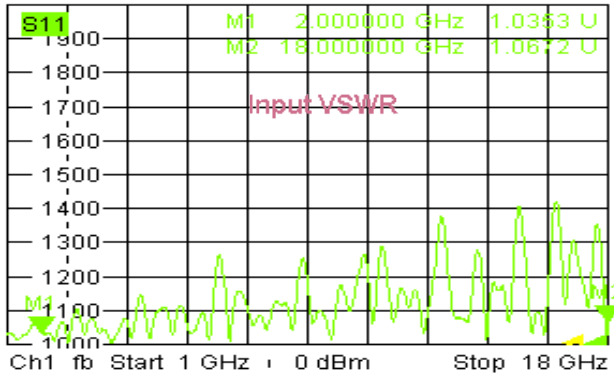


Typical Performance

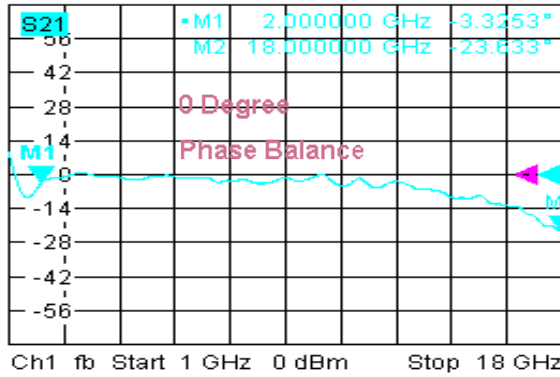
1. Insertion Loss, Amplitude & Phase Balance, VSWR_{in} 0°



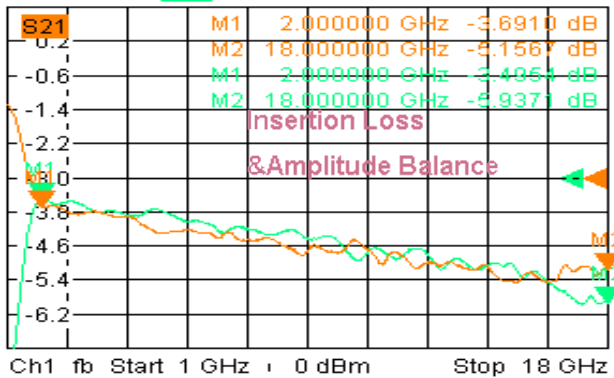
Trc1 **S11** SWR 100 mU/ Ref 1 U Cal
Mem5[Trc1] **S11** SWR 100 mU/ Ref 1 U Invisib



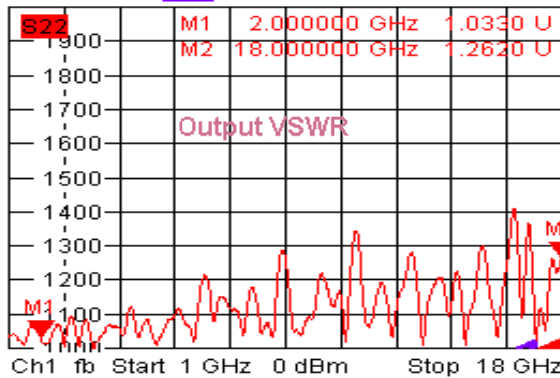
Trc2 **S21** Phase unwrap 14° / Ref 0°
Mem6[Trc2] **S21** Phase unwrap 14° / Ref 0°



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 Inv



1/6/2020, 10:58 PM

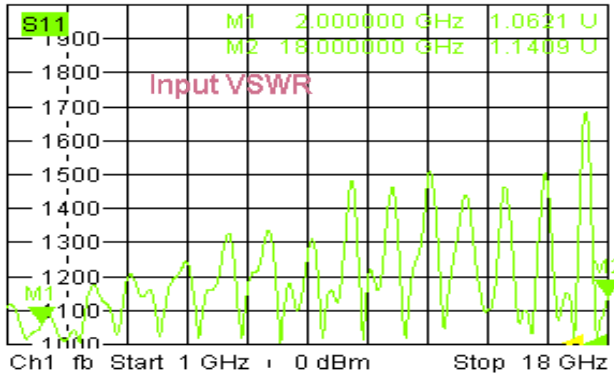


Typical Performance

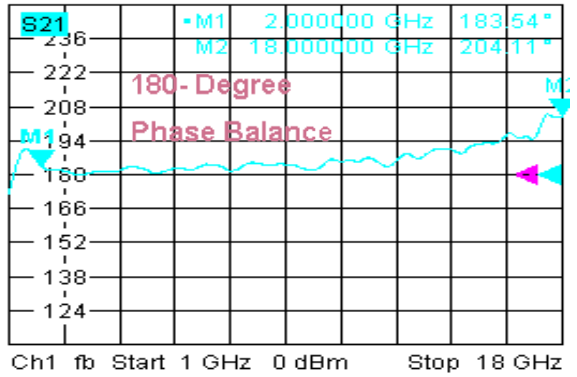
2. Insertion Loss, Amplitude & Phase Balance, VSWR _ 180°



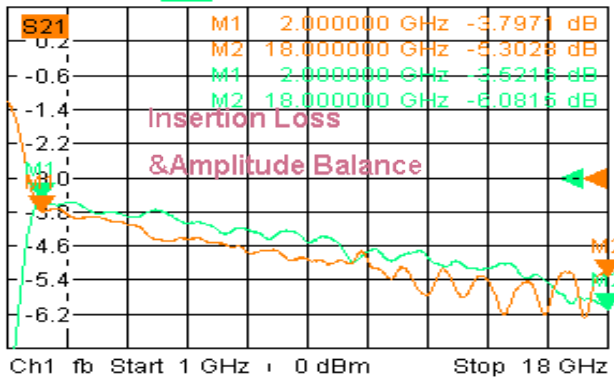
Trc1 Mem5[Trc1] S11 SWR 100 mU/ Ref 1 U Cal
S11 SWR 100 mU/ Ref 1 U Invisib



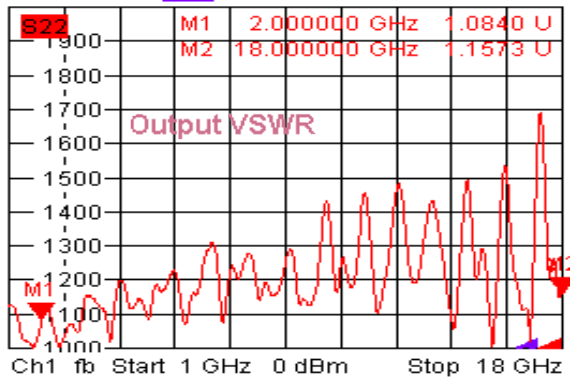
Trc2 Mem6[Trc2] S21 Phase unwrap 14° / Ref 18C
S21 Phase unwrap 14° / Ref 18C



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



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



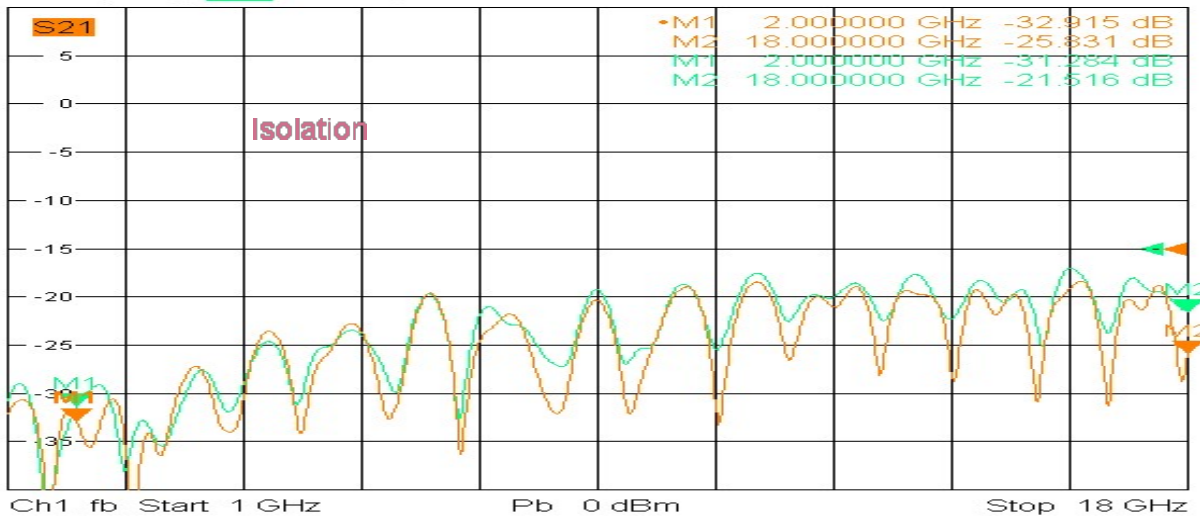
1/6/2020, 10:57 PM

3. Isolation



Trc3 Mem7[Trc3] S21 dB Mag 5 dB / Ref -15 dB Cal
S21 dB Mag 5 dB / Ref -15 dB

3 (Max)



1/6/2020, 10:55 PM

