

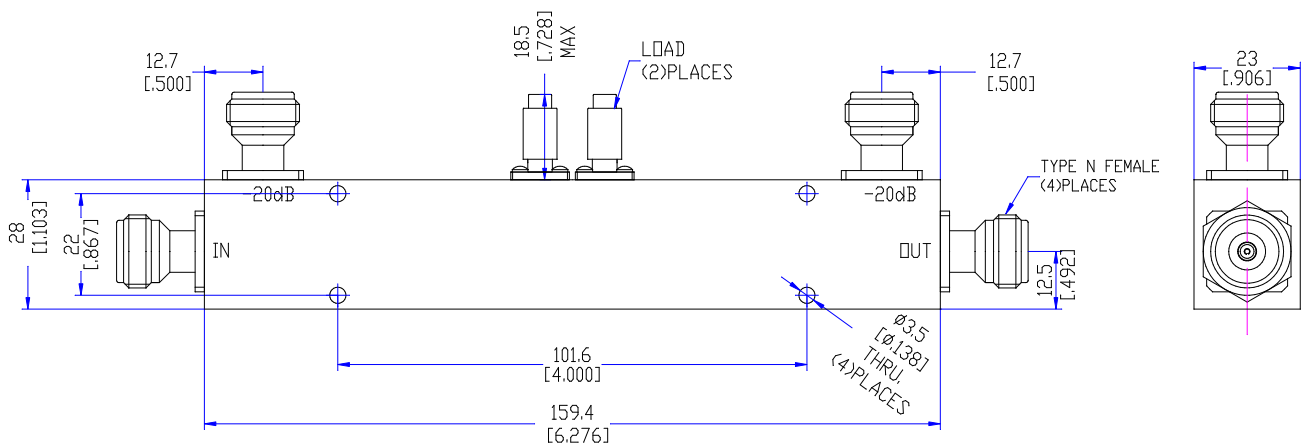
## Model TDC10180N20D

### Features

- Low VSWR
- High Directivity
- Broadband & Miniature Size

Technical Data Sheet			
Frequency Range	1~18GHz	Finish	Painted Blue_ RAL #5007
Insertion Loss	≤1.60dB (Excl. Coupling Loss 0.08dB)	Connector Body	Passivated Stainless Steel
Coupling Factor	≤20±1dB	Housing	Aluminum, 6061 T6 Clear Chem Conversion Film
Coupling Sensitivity	≤±1dB	Connector Pin	Beryllium Copper, Gold Plate
Directivity	≥10dB	Solder	Lead Free, RoHS Compliant
VSWR	Primary ≤1.50:1 Secondary ≤1.50:1	Operating Temperature	-55~+85°C
<sup>1</sup> Power Handling	Incident ≤50Watt; Reflected ≤10Watt	Operating Humidity	Up to 95%, Non- Condensing
Impedance	50Ω	Weight	350g
Port Connectors	N-Female		

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

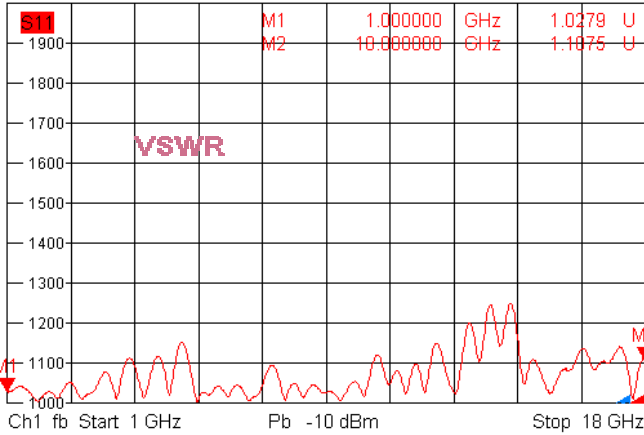


## Typical Performance

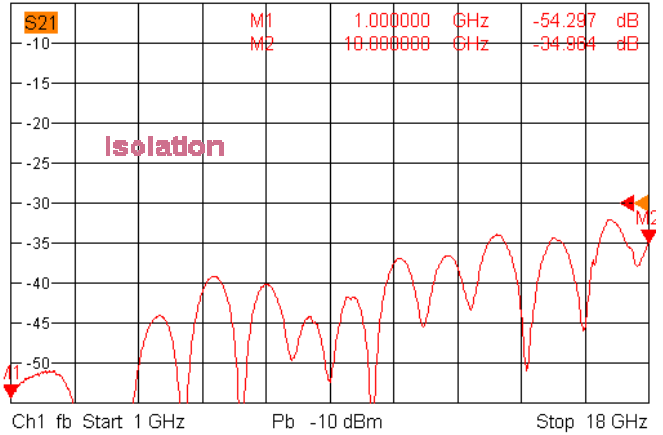
### 1. Coupling Factor & Sensitivity, Isolation, VSWR



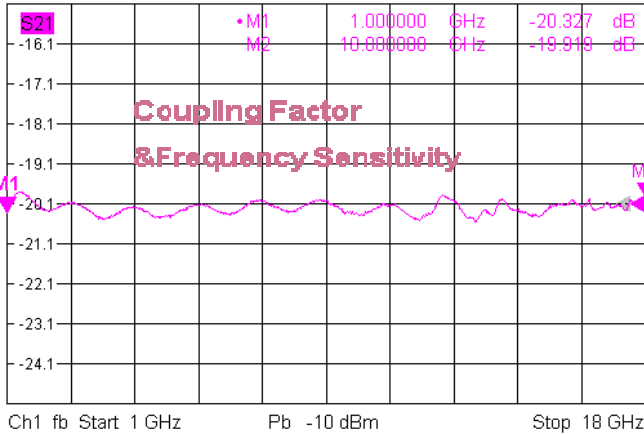
Trc4 **S11** SWR 100 mU/ Ref 1 U Cal 1  
 Mem9[Trc4] **S11** SWR 100 mU/ Ref 1 U Invisible



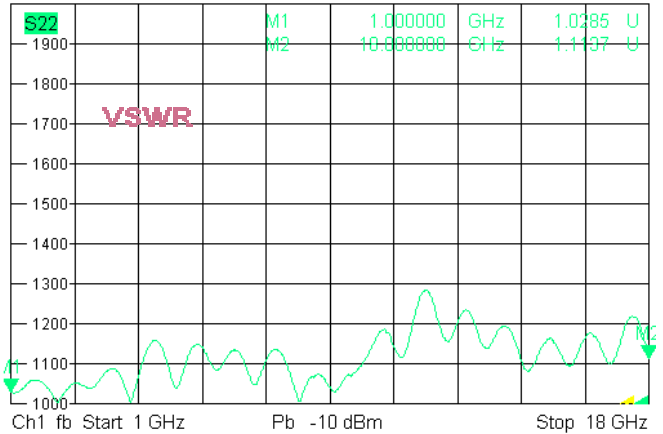
Trc13 **S21** dB Mag 5 dB / Ref -30 dB Invisible 2  
 Mem14[Trc13] **S21** dB Mag 5 dB / Ref -30 dB



Trc6 **S21** dB Mag 1 dB / Ref -20.1 dB Cal 3  
 Mem10[Trc6] **S21** dB Mag 1 dB / Ref -20.1 dB Invisible



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

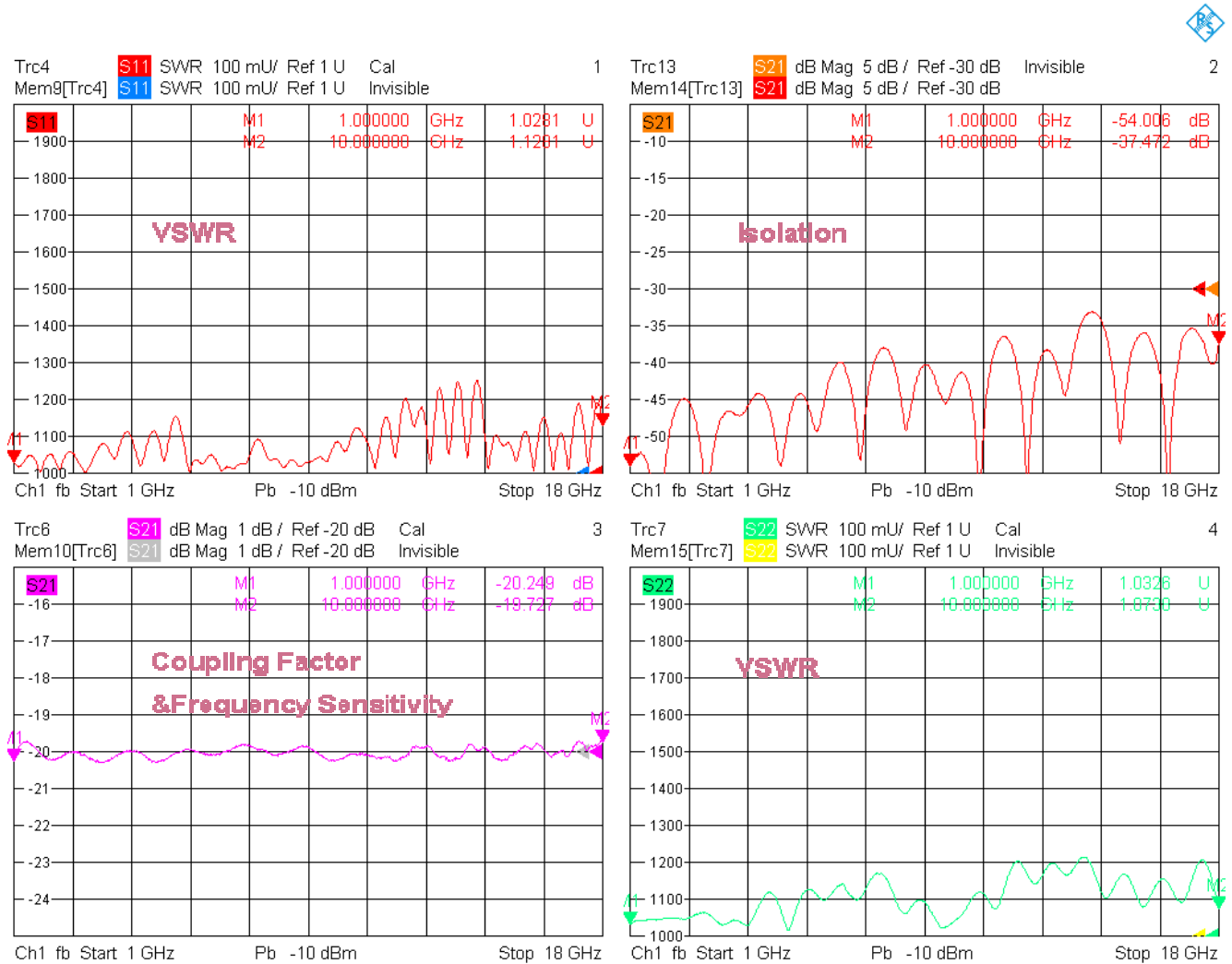


11/15/2022, 10:40 AM



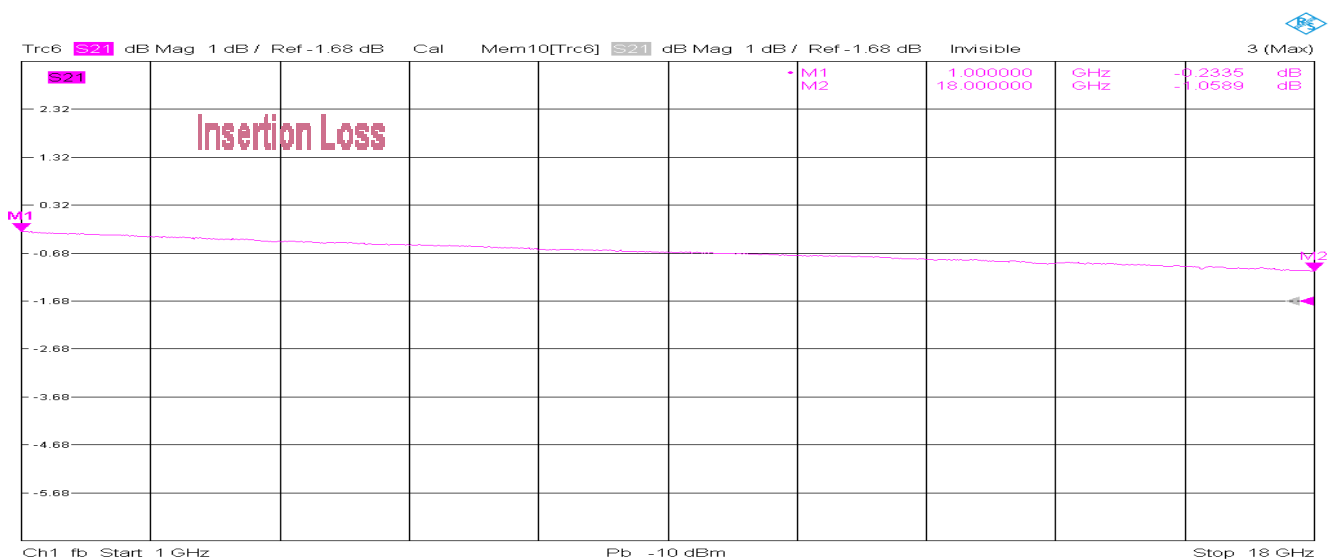
## Typical Performance

### 2. Coupling Factor & Sensitivity, Isolation, VSWR



11/15/2022, 10:39 AM

### 2. Insertion Loss



11/15/2022, 10:41 AM

