

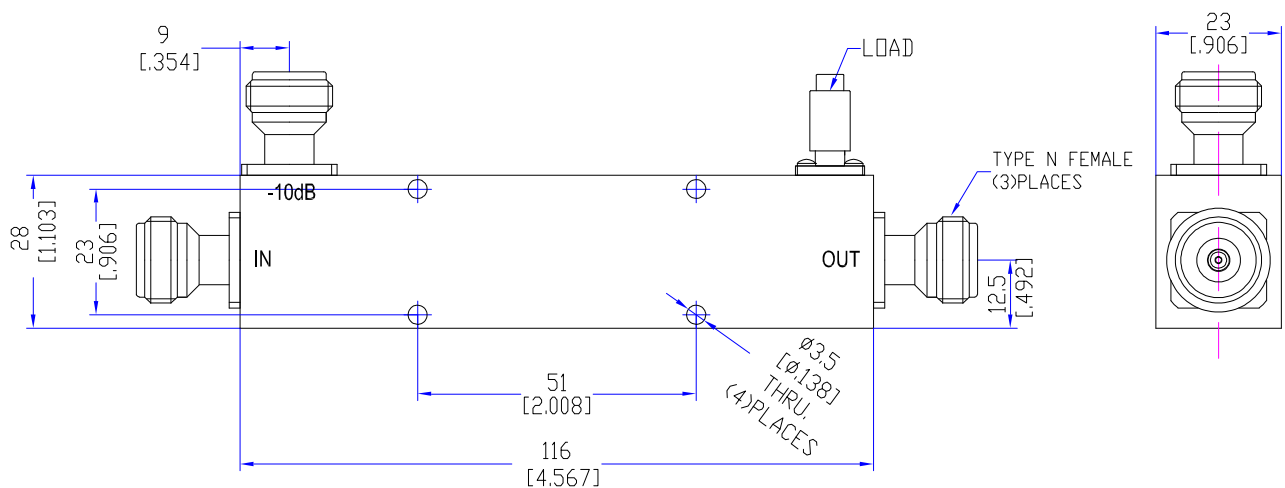
## Model TDC05180N10

### Features

Low VSWR  
High Directivity  
Broadband & Miniature Size

Technical Data Sheet			
Frequency Range	0.5~18GHz	Finish	Painted Blue_ RAL #5007
Insertion Loss	≤1.2dB (Excl. Coupling Loss 0.46dB)	Connector Body	Passivated Stainless Steel
Coupling Factor	≤10±1.0dB	Housing	Aluminum, 6061 T6 Clear Chem Conversion Film
Coupling Sensitivity	≤±1.0dB	Connector Pin	Beryllium Copper, Gold Plate
Directivity	≥12dB	Solder	Lead Free, RoHS Compliant
VSWR	Primary ≤1.60:1 Secondary ≤1.60:1	Operating Temperature	-55~+85°C
<sup>1</sup> Power Handling	Incident ≤50Watt; Reflected ≤2Watt	Operating Humidity	Up to 95%, Non- Condensing
Impedance	50Ω	Weight	260g
Port Connectors	N-Female		

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

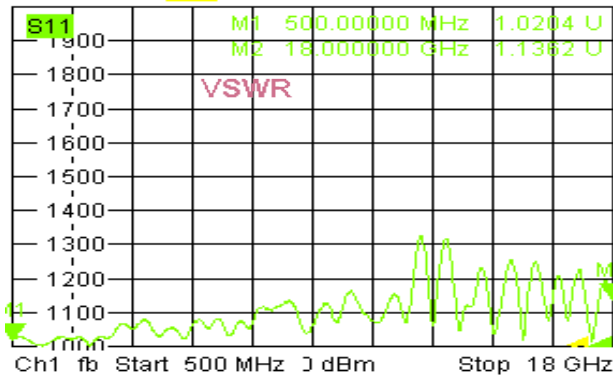


## Typical Performance

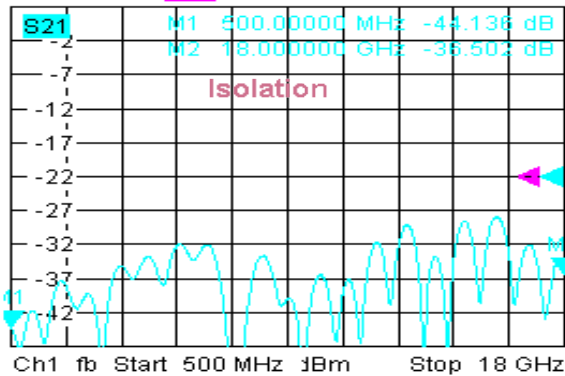
### 1. Coupling Factor & Sensitivity, Isolation, VSWR



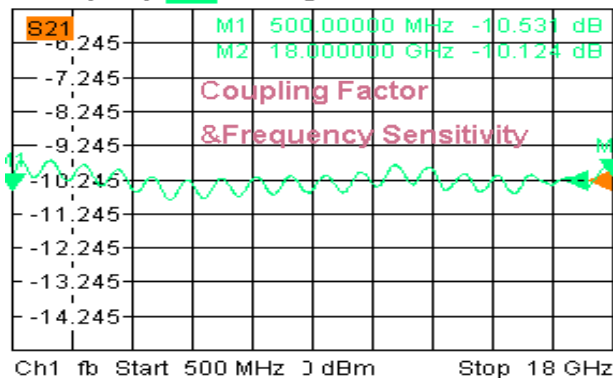
Trc1 Mem5[Trc1] **S11** SWR 100 mU/ Ref 1 U Cal  
**S11** SWR 100 mU/ Ref 1 U Invisib



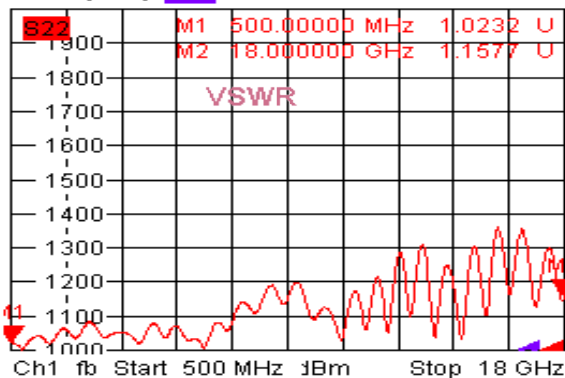
Trc2 Mem6[Trc2] **S21** dB Mag 5 dB / Ref -22 dB  
**S21** dB Mag 5 dB / Ref -22 dB



Trc3 Mem7[Trc3] **S21** dB Mag 1 dB / Ref -10.245 dB  
**S21** dB Mag 1 dB / Ref -10.245 dB



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

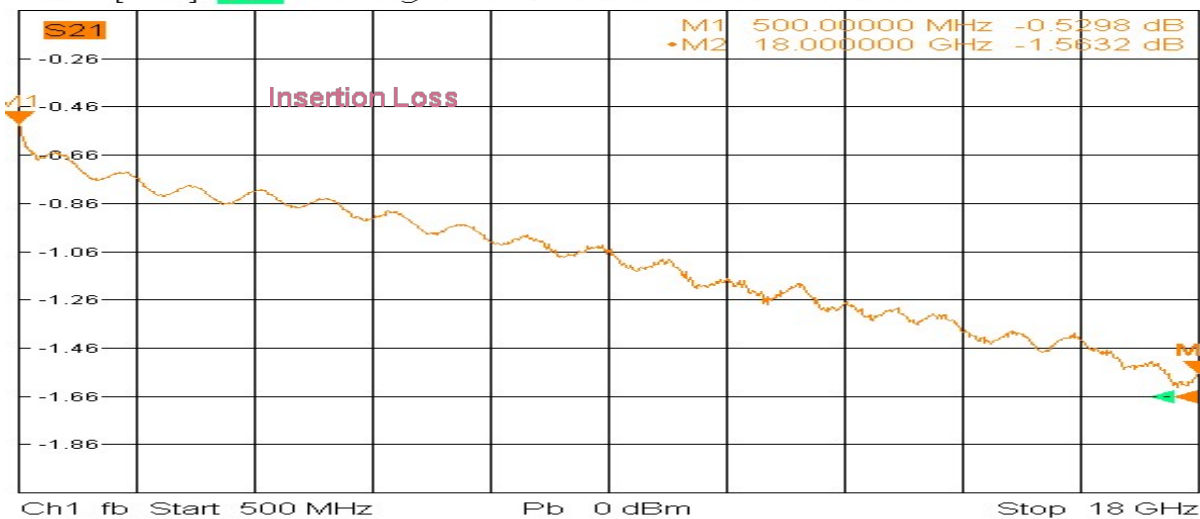


10/29/2020, 2:29 PM

### 2. Insertion Loss



Trc3 Mem7[Trc3] **S21** dB Mag 0.2 dB / Ref -1.66 dB Cal  
**S21** dB Mag 0.2 dB / Ref -1.66 dB Invisible 3 (Max)



10/29/2020, 2:30 PM

