

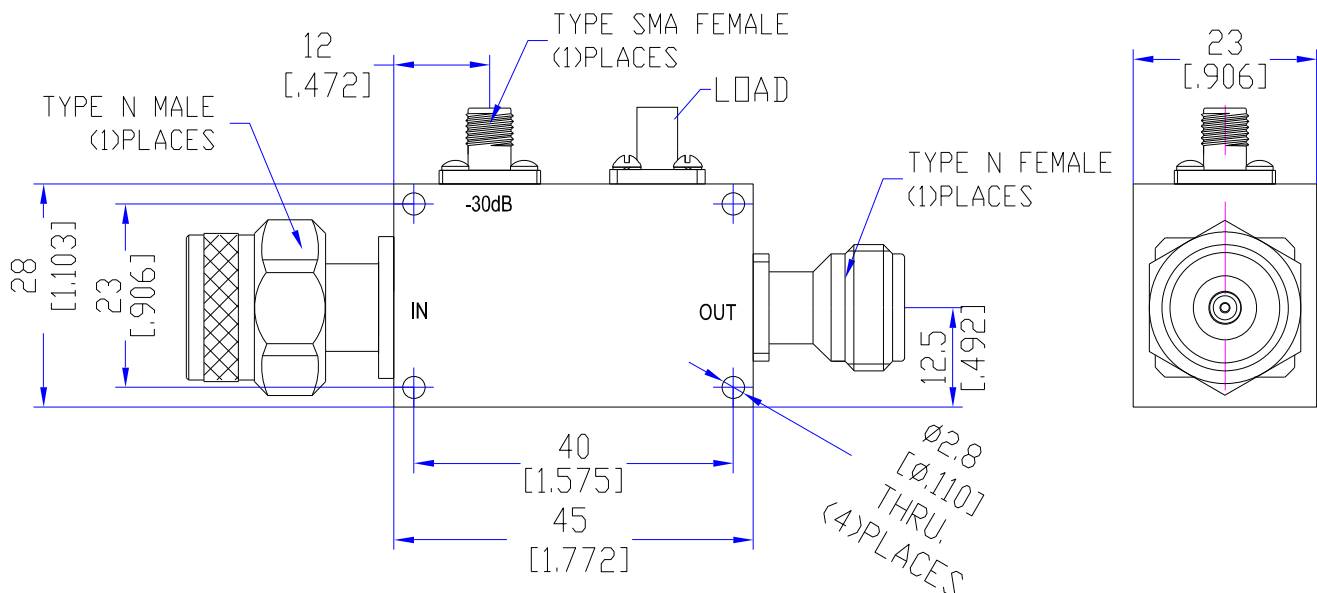
## Model TDC80180N30H

### Features

Low VSWR  
High Directivity  
Broadband & Miniature Size

Technical Data Sheet			
Frequency Range	8~18GHz	Finish	Painted Blue_ RAL #5007
Insertion Loss	≤0.9dB (Excl. Coupling Loss 0.01dB)	Connector Body	Passivated Stainless Steel
Coupling Factor	≤30±1dB	Housing	Aluminum, 6061 T6 Clear Chem Conversion Film
Coupling Sensitivity	≤±0.7dB	Connector Pin	Beryllium Copper, Gold Plate
Directivity	≥10dB	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	130g
Port Connectors	Input: N-Male Output: N-Female Coupled: SMA-Female		

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

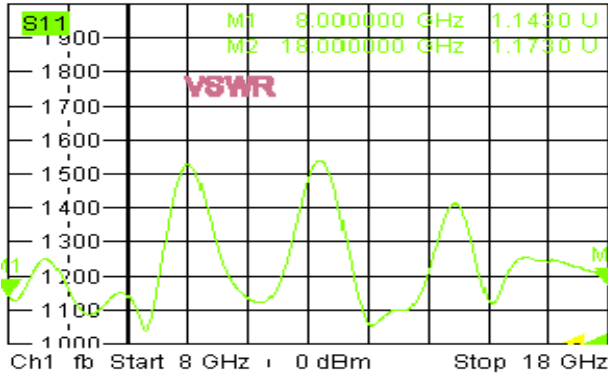


## Typical Performance

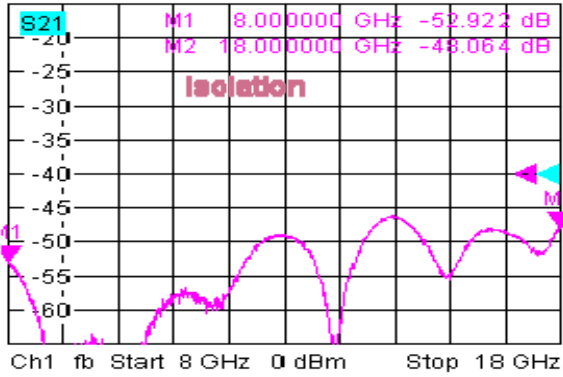
### 1. Coupling Factor & Sensitivity, Isolation, VSWR



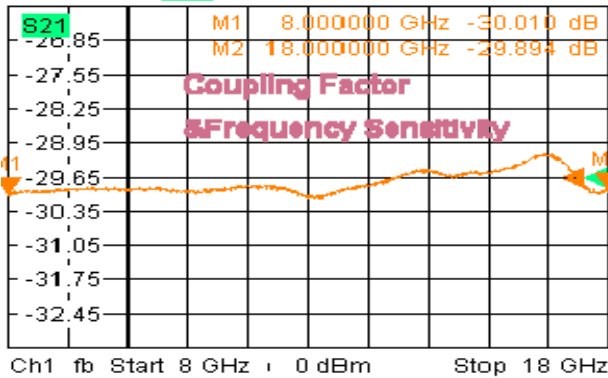
Trc1 Mem5[Trc1] **S11** SWR 100 mU/ Ref1 U Cal Ma  
**S21** SWR 100 mU/ Ref1 U Invisib



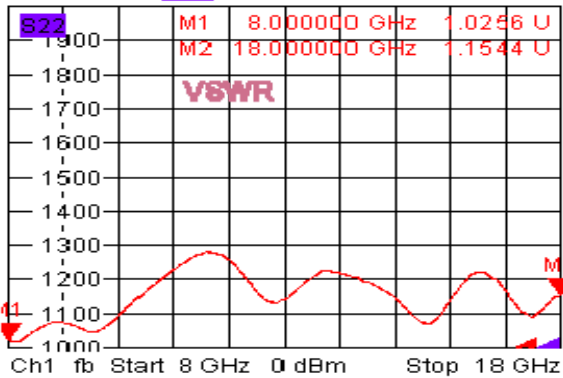
Trc2 Mem6[Trc2] **S21** dB Mag 5 dB / Ref-40 dB  
**S21** dB Mag 5 dB / Ref-40 dB



Trc3 Mem7[Trc3] **S21** dB Mag 0.7 dB / Ref-29.65 dB  
**S21** dB Mag 0.7 dB / Ref-29.65 dB



Trc4 Mem8[Trc4] **S22** SWR 100 mU/ Ref1 U Ca  
**S22** SWR 100 mU/ Ref1 U In

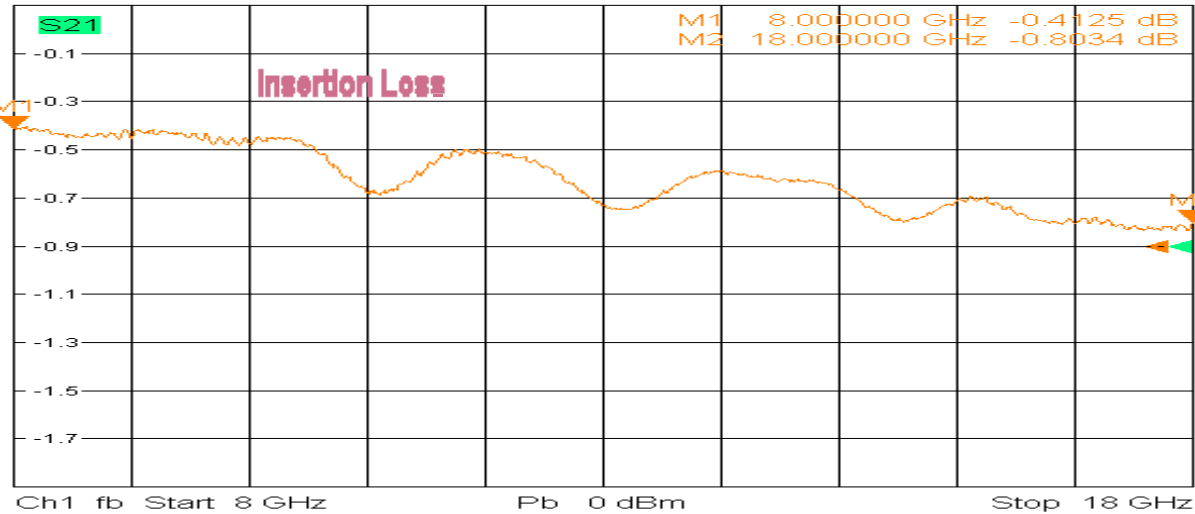


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### 2. Insertion Loss



Trc3 Mem7[Trc3] **S21** dB Mag 0.2 dB / Ref -0.9 dB Cal Invisible 3 (Max)  
**S21** dB Mag 0.2 dB / Ref -0.9 dB



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