

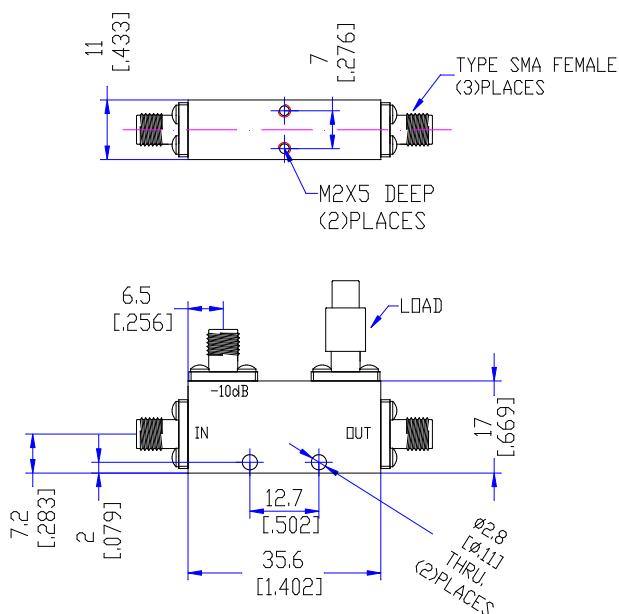
## Model TDC100180A10

### Features

Low VSWR  
High Directivity  
Broadband & Miniature Size

Technical Data Sheet			
Frequency Range	10~18GHz	Finish	Painted Blue_ RAL #5007
Insertion Loss	≤0.7dB (Excl. Coupling Loss 0.46dB)	Connector Body	Passivated Stainless Steel
Coupling Factor	≤10±0.7dB	Housing	Aluminum, 6061 T6 Clear Chem Conversion Film
Coupling Sensitivity	≤±0.7dB	Connector Pin	Beryllium Copper, Gold Plate
Directivity	≥15dB	Solder	Lead Free, RoHS Compliant
VSWR	Primary ≤1.40:1 Secondary ≤1.40:1	Operating Temperature	-55~+85°C
<sup>1</sup> Power Handling	Incident ≤50Watt; Reflected ≤2Watt	Operating Humidity	Up to 95%, Non- Condensing
Impedance	50Ω	Weight	30g
Port Connectors	SMA-Female		

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

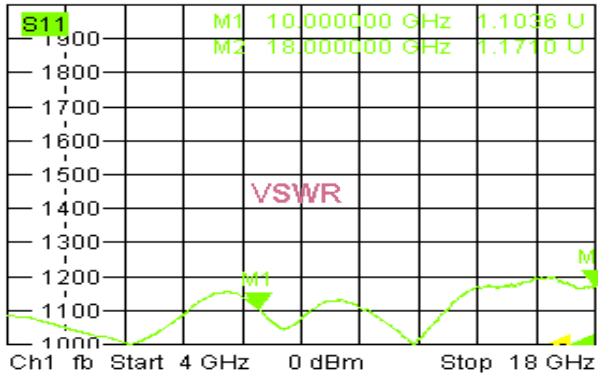


## Typical Performance

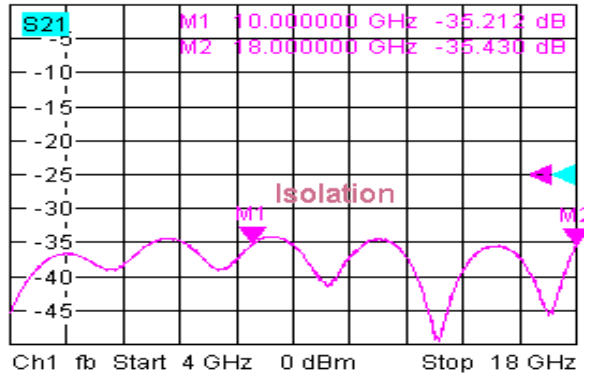
### 1. Coupling Factor & Sensitivity, Isolation, VSWR



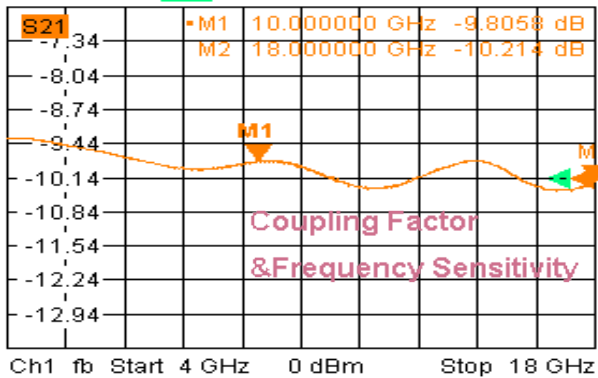
Trc1 **S11** SWR 100 mU/ Ref 1 U Cal  
Mem5[Trc1] **S11** SWR 100 mU/ Ref 1 U Invisi



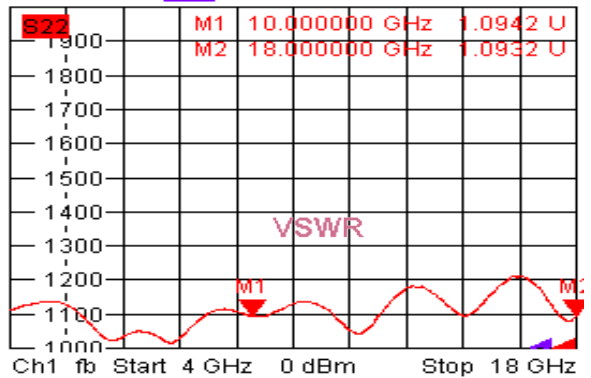
Trc2 **S21** dB Mag 5 dB / Ref -25 dB II  
Mem6[Trc2] **S21** dB Mag 5 dB / Ref -25 dB



Trc3 **S21** dB Mag 0.7 dB / Ref -10.14 dB  
Mem7[Trc3] **S21** dB Mag 0.7 dB / Ref -10.14 dB



Trc4 **S22** SWR 100 mU/ Ref 1 U Cal  
Mem8[Trc4] **S22** SWR 100 mU/ Ref 1 U Invi

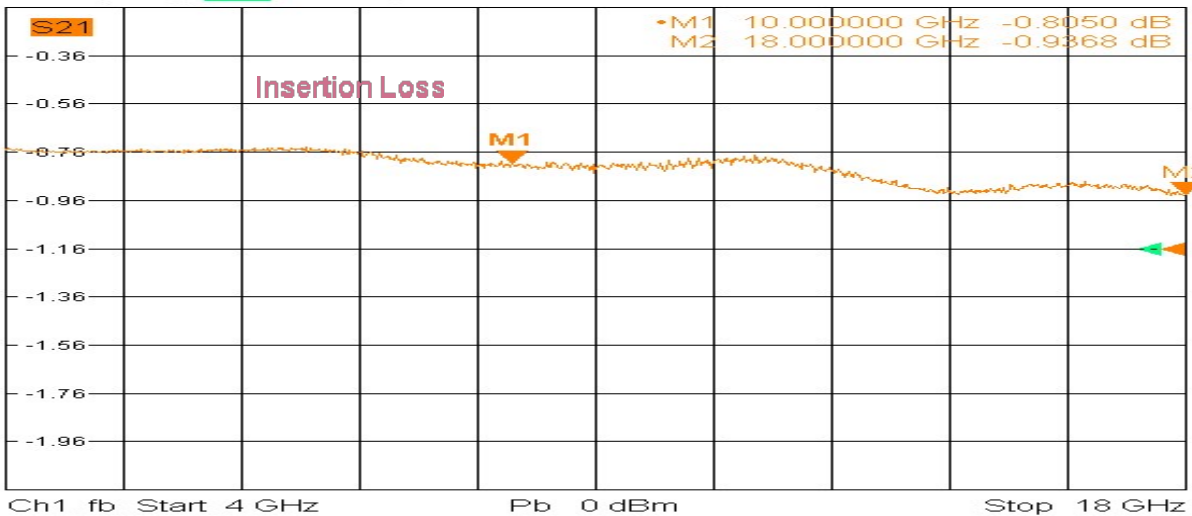


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### 2. Insertion Loss



Trc3 **S21** dB Mag 0.2 dB / Ref -1.16 dB Cal 3 (Max)  
Mem7[Trc3] **S21** dB Mag 0.2 dB / Ref -1.16 dB Invisi



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