

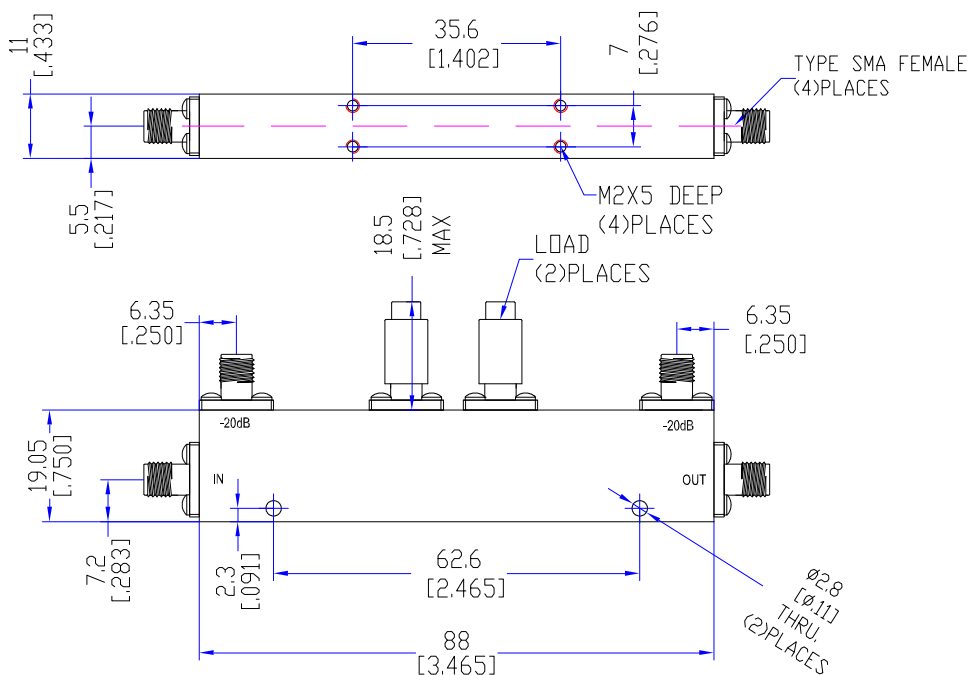
Model TDC20180A20D

Features

Low VSWR
High Directivity
Broadband & Miniature Size

Technical Data Sheet			
Frequency Range	2~18GHz	Finish	Painted Blue_ RAL #5007
Insertion Loss	≤1.5dB (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	≥12dB	Solder	Lead Free, RoHS Compliant
VSWR	Primary ≤1.50:1 Secondary ≤1.50:1	Operating Temperature	-55~+85°C
¹ Power Handling	Incident ≤30Watt; Reflected ≤30Watt	Operating Humidity	Up to 95%, Non- Condensing
Impedance	50Ω	Weight	70g
Port Connectors	SMA-Female		

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

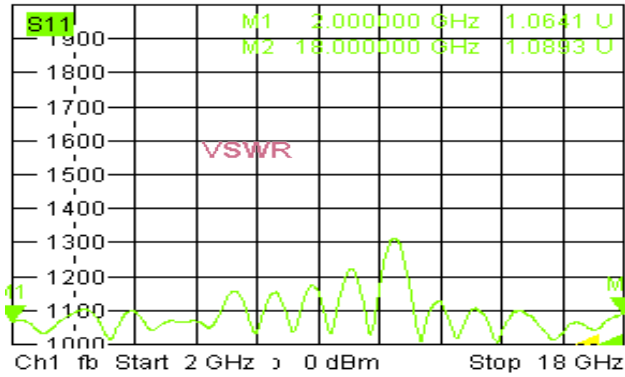


Typical Performance

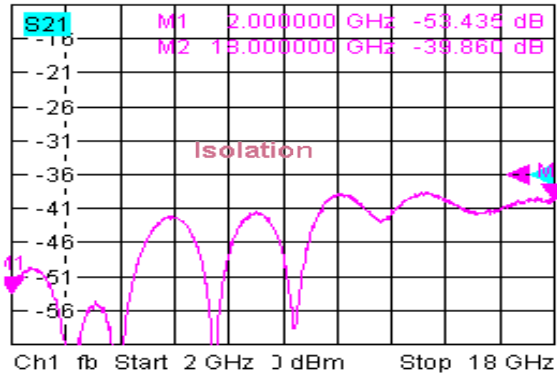
1. Coupling Factor & Sensitivity, Isolation, VSWR



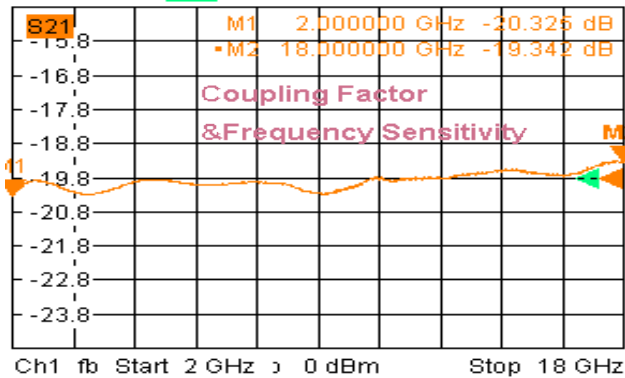
Trc1 Mem5[Trc1] **S11** SWR 100 mU/ Ref 1 U Cal Invisible



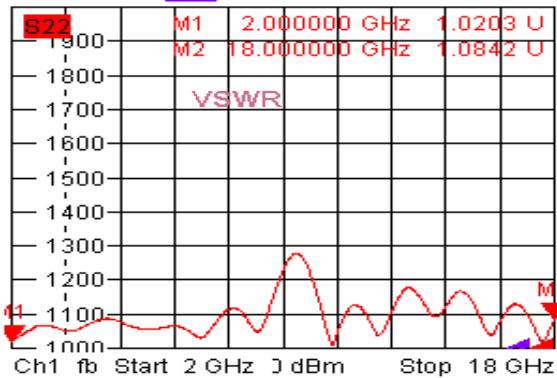
Trc2 Mem6[Trc2] **S21** dB Mag 5 dB / Ref -36 dB



Trc3 Mem7[Trc3] **S21** dB Mag 1 dB / Ref -19.8 dB Ca Inv



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



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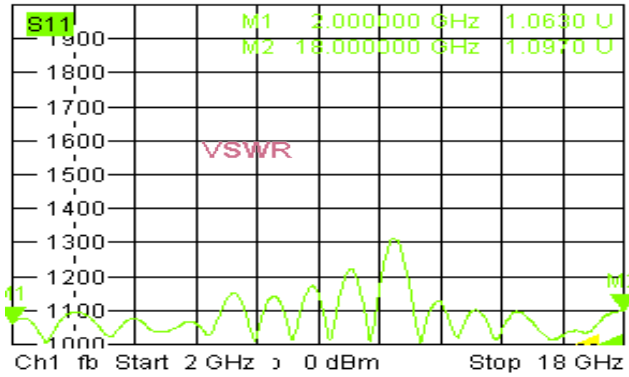


Typical Performance

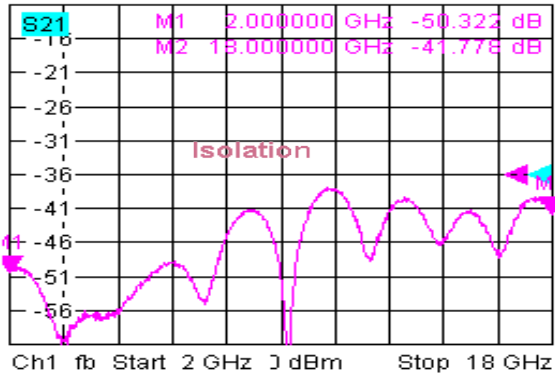
2. Coupling Factor & Sensitivity, Isolation, VSWR



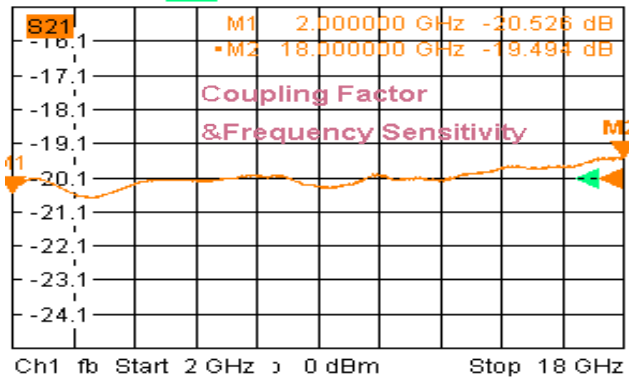
Trc1 Mem5[Trc1] S11 SWR 100 mU/ Ref 1 U Cal Invisible



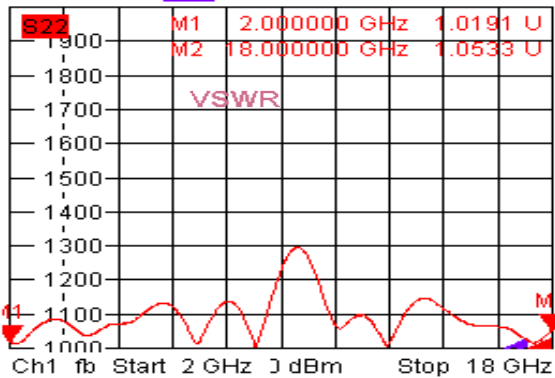
Trc2 Mem6[Trc2] S21 dB Mag 5 dB / Ref -36 dB



Trc3 Mem7[Trc3] S21 dB Mag 1 dB / Ref -20.1 dB Ca Inv



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

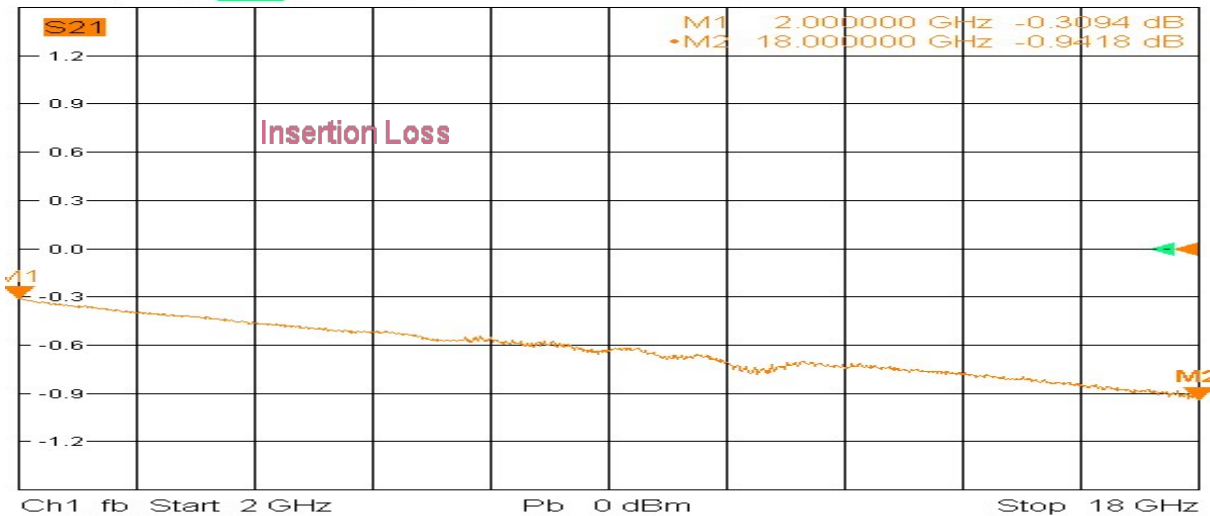


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3. Insertion Loss



Trc3 Mem7[Trc3] S21 dB Mag 0.3 dB / Ref 0 dB Cal Invisible 3 (Max)



8/28/2020, 10:25 AM

