

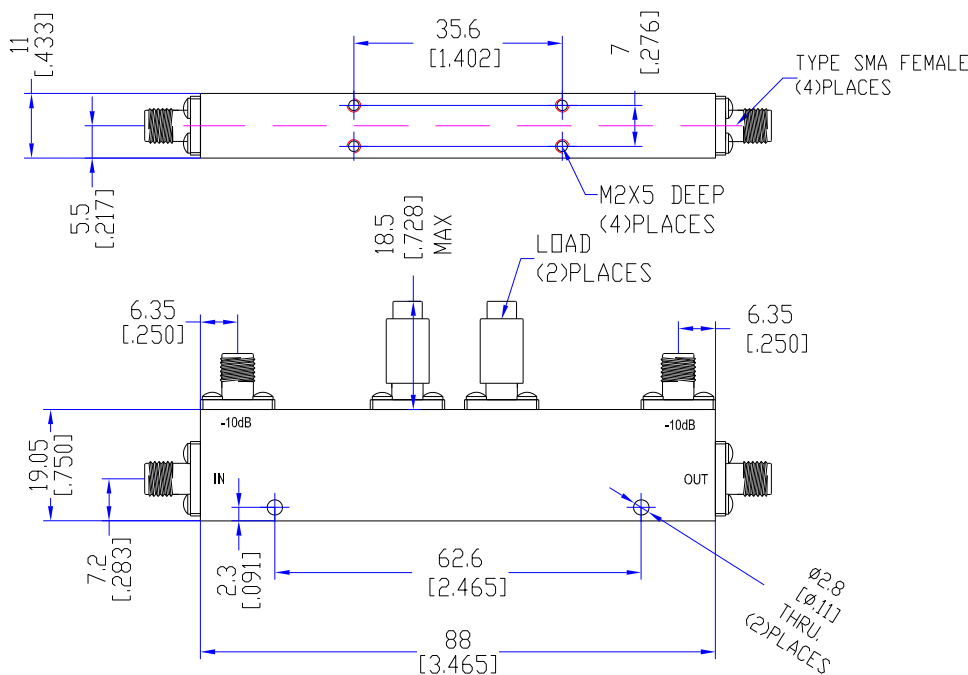
Model TDC20180A10D

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 0.92dB) | Connector Body | Passivated Stainless Steel |
| Coupling Factor | ≤10±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 ≤10Watt; Reflected ≤10Watt | Operating Humidity | Up to 95%, Non- Condensing |
| Impedance | 50Ω | Weight | 90g |
| Port Connectors | SMA-Female | | |

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

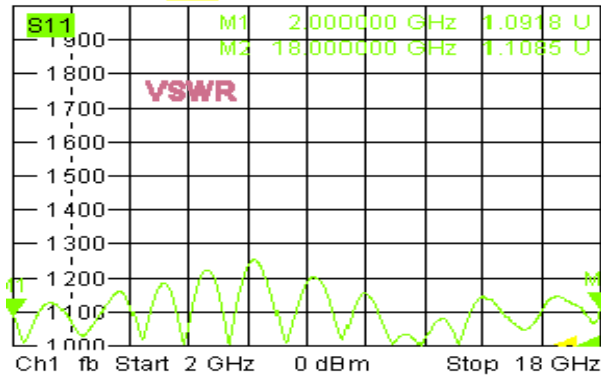


Typical Performance

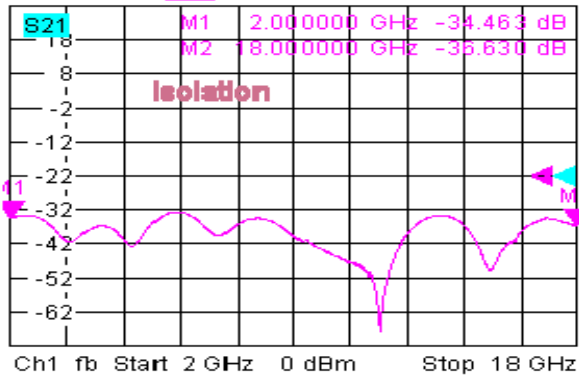
1. Coupling Factor & Sensitivity, Isolation, VSWR



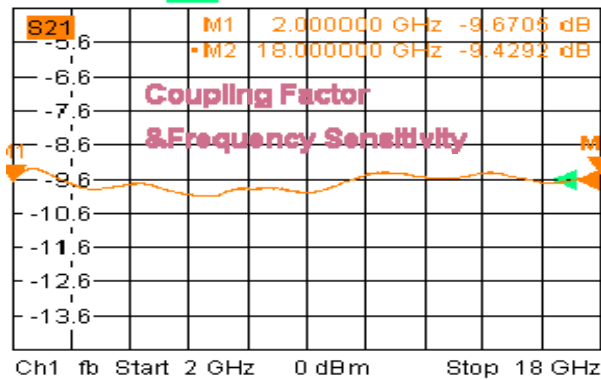
Trc1 **S11** SWR 100 mU/ Ref1 U Cal
 Mem5[Trc1] **S11** SWR 100 mU/ Ref1 U Invisi



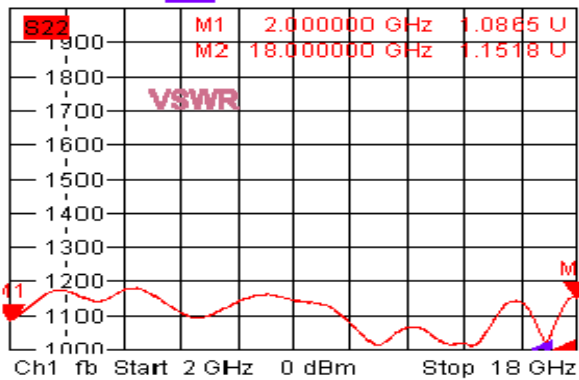
Trc2 **S21** dB Mag 10 dB / Ref-22 dB
 Mem6[Trc2] **S21** dB Mag 10 dB / Ref-22 dB



Trc3 **S21** dB Mag 1 dB / Ref-9.6 dB Ca
 Mem7[Trc3] **S21** dB Mag 1 dB / Ref-9.6 dB In



Trc4 **S22** SWR 100 mU/ Ref1 U Cal
 Mem8[Trc4] **S22** SWR 100 mU/ Ref1 U Invi



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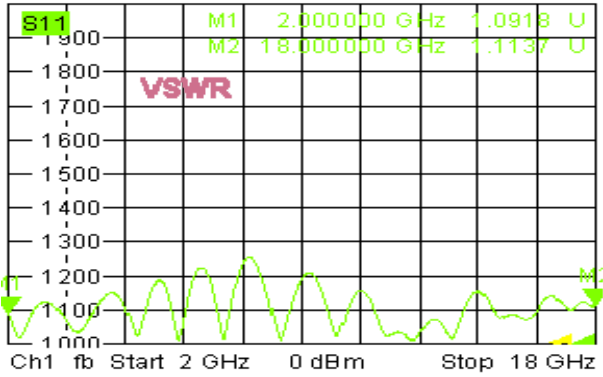


Typical Performance

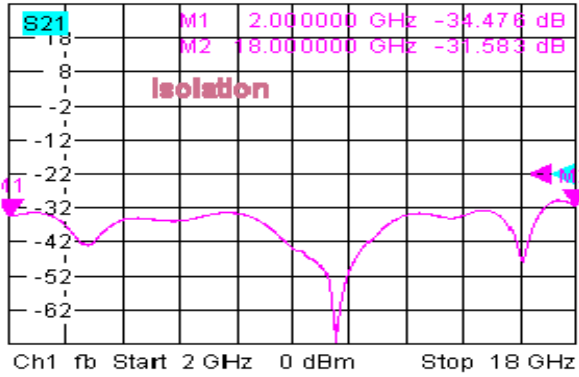
2. Coupling Factor & Sensitivity, Isolation, VSWR



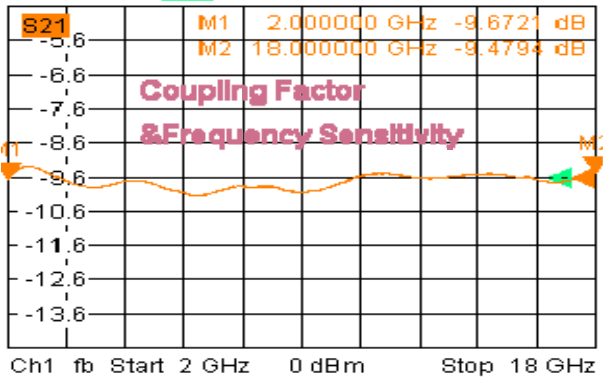
Trc1 Mem5[Trc1] **S11** SWR 100 mU/ Ref1 U Cal Invisi



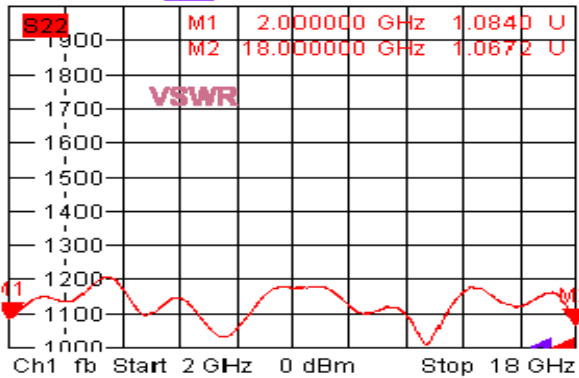
Trc2 Mem6[Trc2] **S21** dB Mag 10 dB / Ref-22 dB



Trc3 Mem7[Trc3] **S21** dB Mag 1 dB / Ref-9.6 dB



Trc4 Mem8[Trc4] **S22** SWR 100 mU/ Ref1 U Cal Invisi

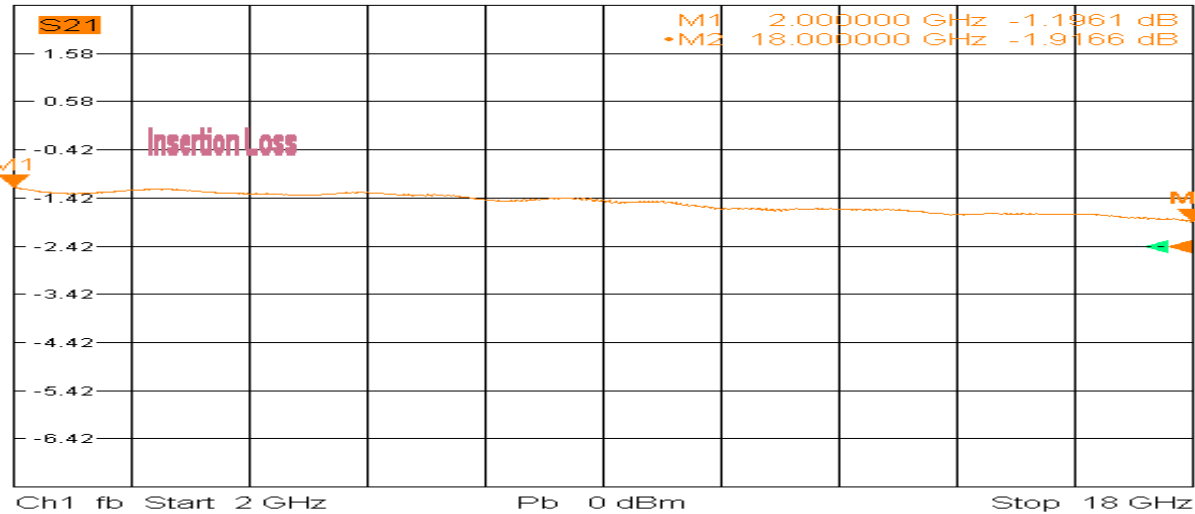


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3. Insertion Loss



Trc3 Mem7[Trc3] **S21** dB Mag 1 dB / Ref-2.42 dB Cal Invisible 3 (Max)



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