

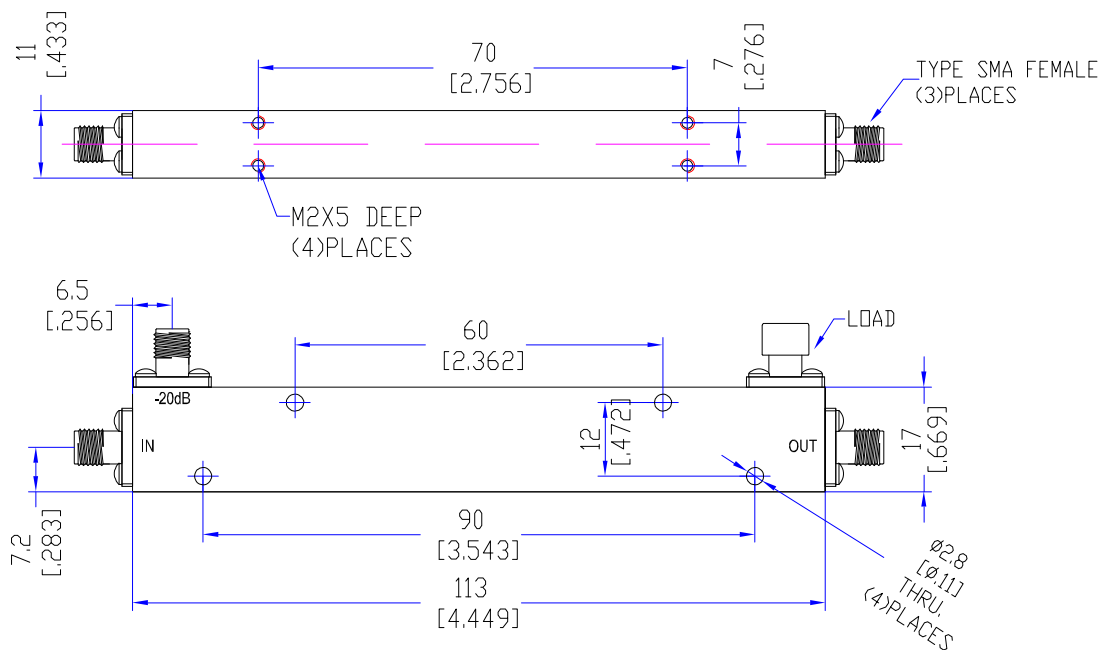
Model TDC05180A20

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 0.04dB) | Connector Body | Passivated Stainless Steel |
| Coupling Factor | ≤20±0.8dB | 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 ≤1.40:1 Secondary ≤1.40:1 | Operating Temperature | -55~+85°C |
| ¹ Power Handling | Incident ≤50Watt; Reflected ≤2Watt | 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.

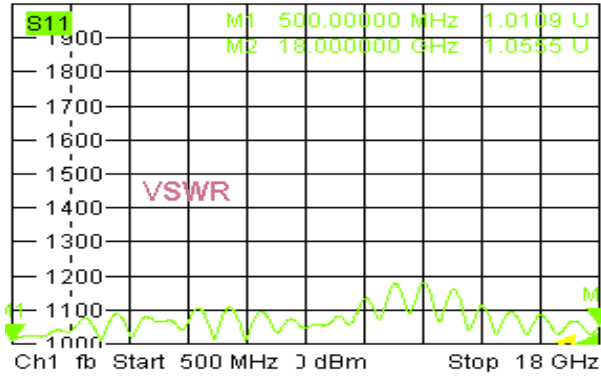


Typical Performance

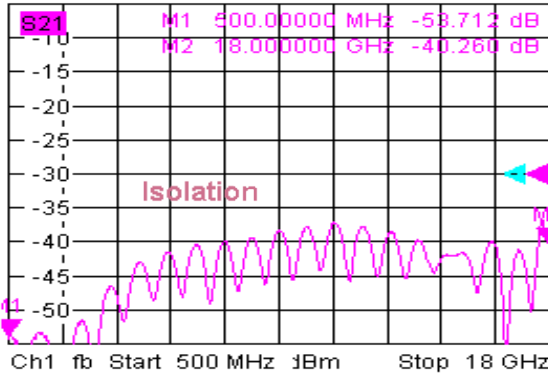
1. Coupling Factor & Sensitivity, Isolation, VSWR



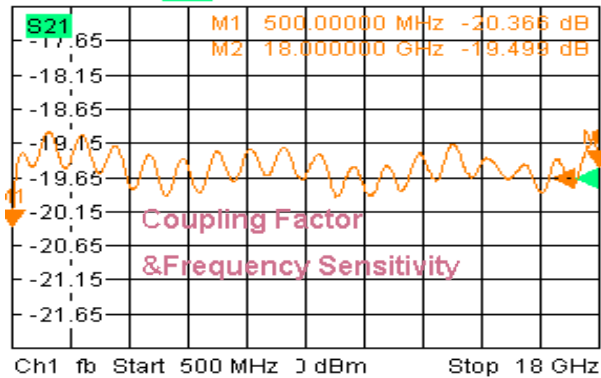
Trc1 **S11** SWR 100 mU/ Ref1 U Cal
Mem5[Trc1] **S11** SWR 100 mU/ Ref1 U Invisib



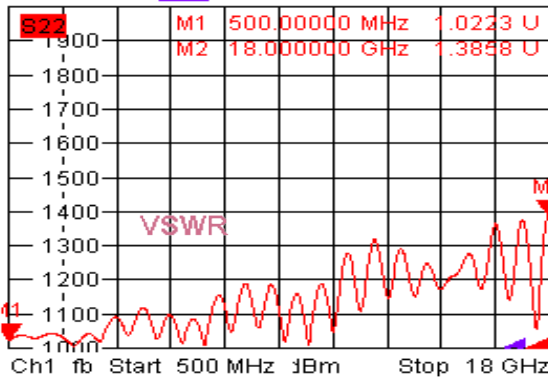
Trc2 **S21** dB Mag 5 dB / Ref-30 dB
Mem6[Trc2] **S21** dB Mag 5 dB / Ref-30 dB



Trc3 **S21** dB Mag 0.5 dB / Ref-19.65 dB
Mem7[Trc3] **S21** dB Mag 0.5 dB / Ref-19.65 dB



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

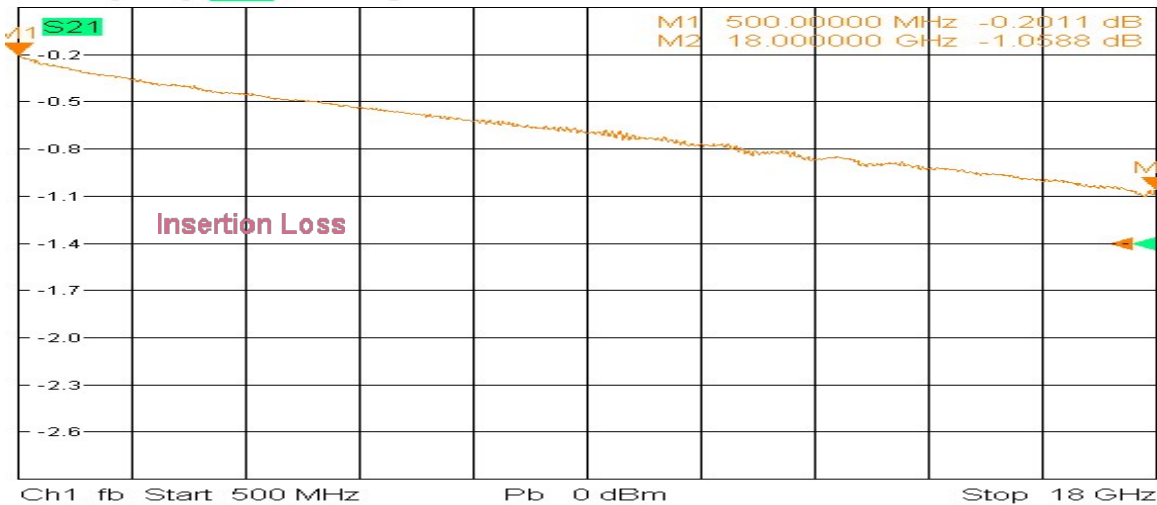


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2. Insertion Loss



Trc3 **S21** dB Mag 0.3 dB / Ref-1.4 dB Cal 3 (Max)
Mem7[Trc3] **S21** dB Mag 0.3 dB / Ref-1.4 dB Invisib



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