

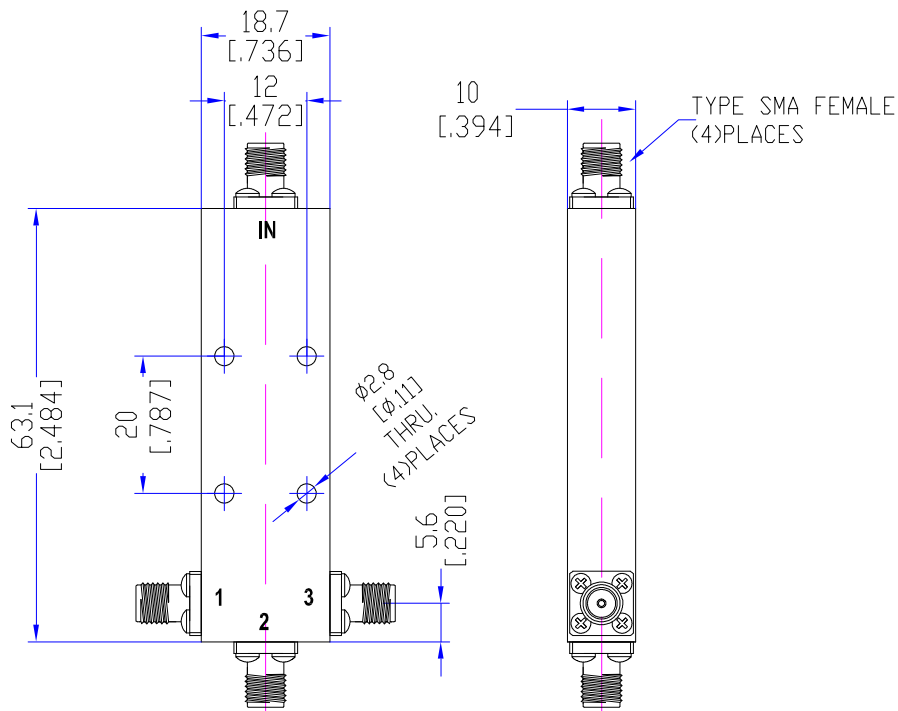
## Model TPD20180A3

### Features

Excellent phase & amplitude balance  
 Low Insertion Loss & VSWR  
 High Isolation

Technical Data Sheet			
Frequency Range	2~18GHz	Finish	Painted Blue_ RAL #5007
Insertion Loss	≤1.6dB (Above 4.77dB Split)	Connector Body	Passivated Stainless Steel
VSWR	Input ≤1.65:1 Output ≤1.65:1	Housing	Aluminum, 6061 T6 Clear Chem Conversion Film
Isolation	≥20dB	Connector Pin	Beryllium Copper, Gold Plate
Amplitude Balance	≤±0.7dB	Solder	Lead Free, RoHS Compliant
Phase Balance	≤±9°	Operating Temperature	-55~+85°C
<sup>1</sup> Power Handling	Forward ≤30Watt; Reversed ≤1Watt	Operating Humidity	Up to 95%, Non- Condensing
Impedance	50Ω	Weight	35g
Port Connectors	SMA-Female		

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

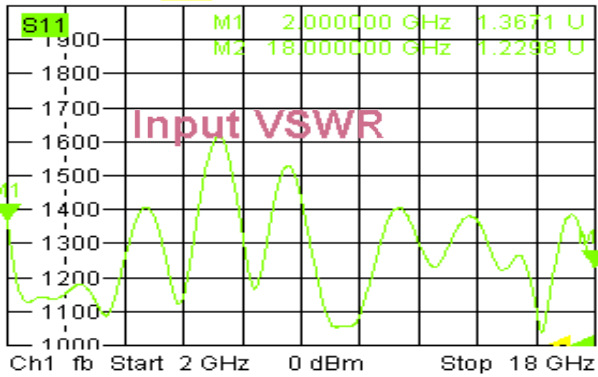


## Typical Performance

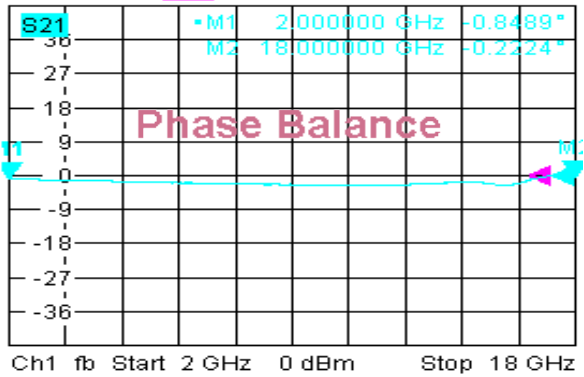
### 1. Insertion Loss, Amplitude &Phase Balance, VSWR



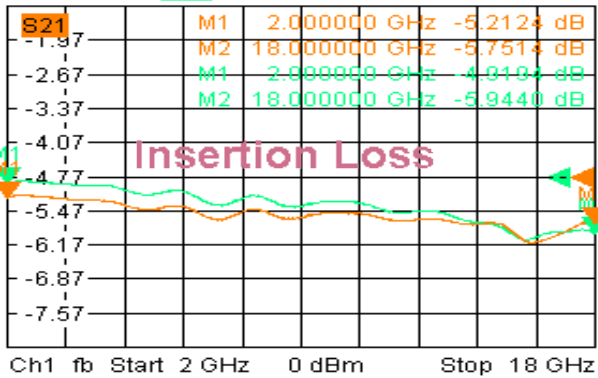
Trc1 Mem5[Trc1] S11 SWR 100 mU/ Ref 1 U Cal Invisi



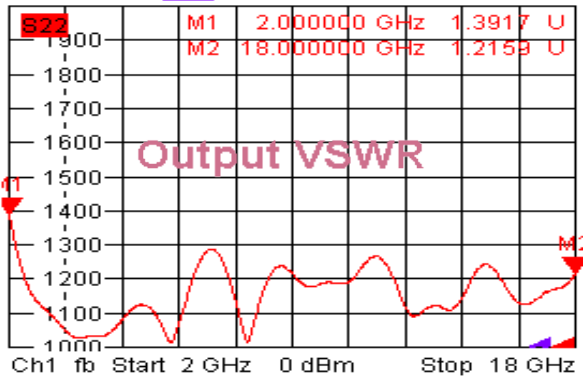
Trc2 Mem6[Trc2] S21 Phase unwrap 9° / Ref 0° Cal



Trc3 Mem7[Trc3] S21 dB Mag 0.7 dB / Ref -4.77 dB Cal



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



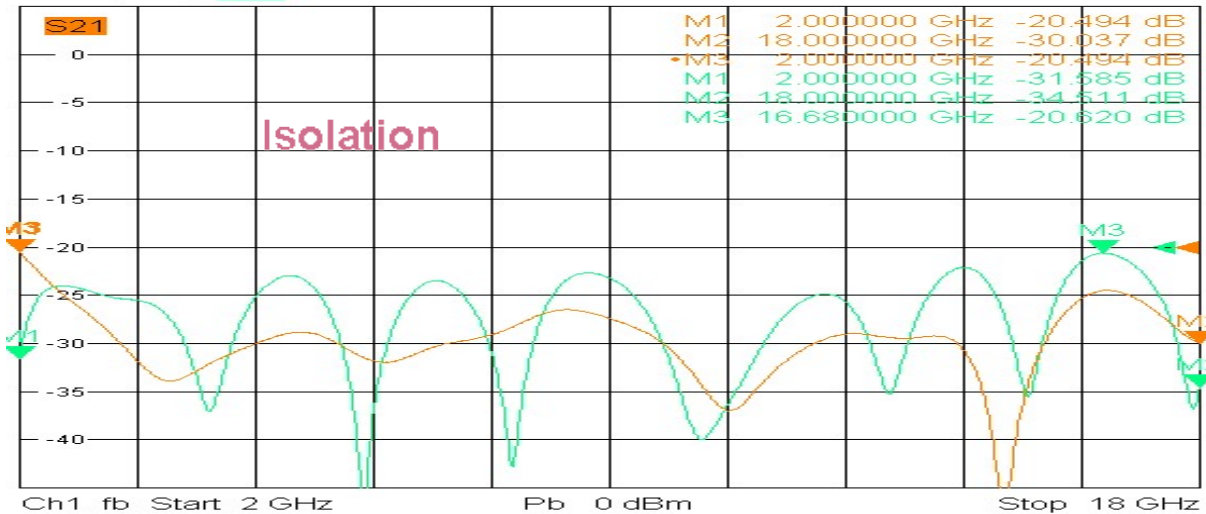
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### 2. Isolation



Trc3 Mem7[Trc3] S21 dB Mag 5 dB / Ref -20 dB Cal

3 (Max)



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