

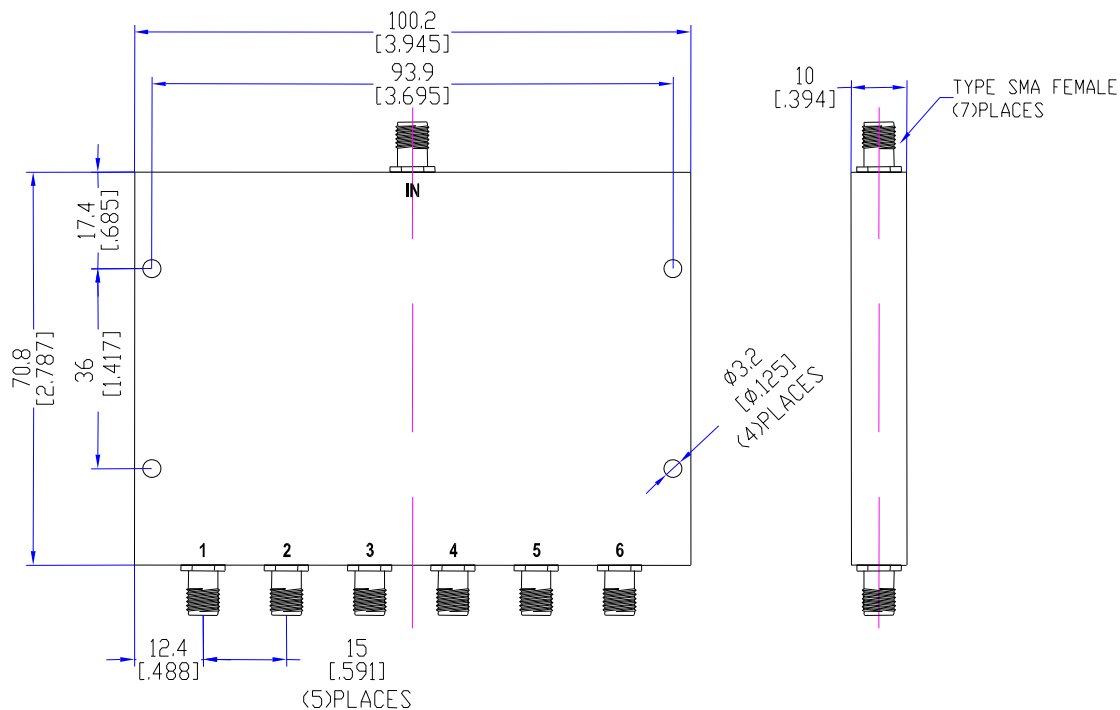
## Model TPD1020A6

### Features

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

Technical Data Sheet			
Frequency Range	1~2GHz	Finish	Painted Blue_ RAL #5007
Insertion Loss	≤0.9dB (Above 7.78dB Split)	Connector Body	Brass, Tri-Alloy Plate
VSWR	Input ≤1.30:1 Output ≤1.30:1	Housing	Aluminum, 6061 T6 Clear Chem Conversion Film
Isolation	≥18dB	Connector Pin	Beryllium Copper, Gold Plate
Amplitude Balance	≤±0.5dB	Solder	Lead Free, RoHS Compliant
Phase Balance	≤±5°	Operating Temperature	-55~+85°C
<sup>1</sup> Power Handling	Forward ≤30Watt; Reversed ≤1Watt	Operating Humidity	Up to 95%, Non-Condensing
Impedance	50Ω	Weight	160g
Port Connectors	SMA-Female		

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

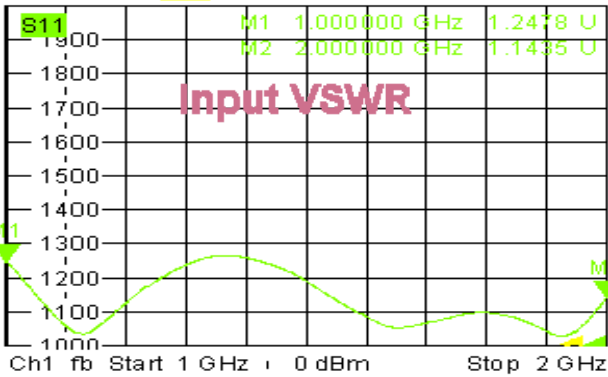


## Typical Performance

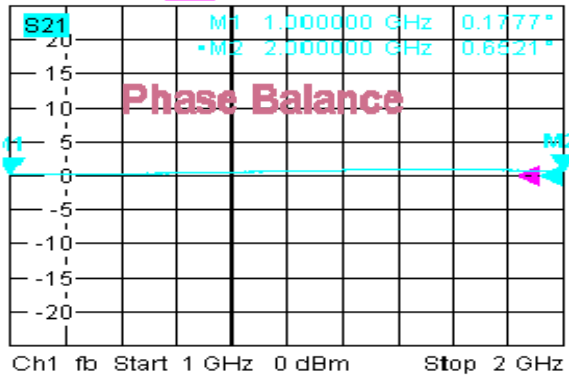
### 1. Insertion Loss, Amplitude &Phase Balance, VSWR



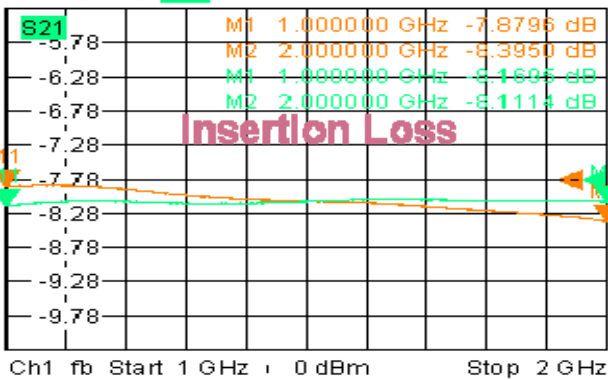
Trc1 **S11** SWR 100 mU/ Ref 1 U Cal  
Mem5[Trc1] **S11** SWR 100 mU/ Ref 1 U Invisib



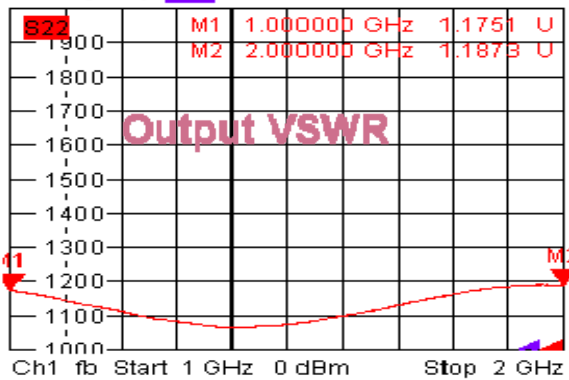
Trc2 **S21** Phase 5° / Ref 0° Cal Mat  
Mem6[Trc2] **S21** Phase 5° / Ref 0° Invisib



Trc3 **S21** dB Mag 0.5 dB / Ref -7.78 dB  
Mem7[Trc3] **S21** dB Mag 0.5 dB / Ref -7.78 dB



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



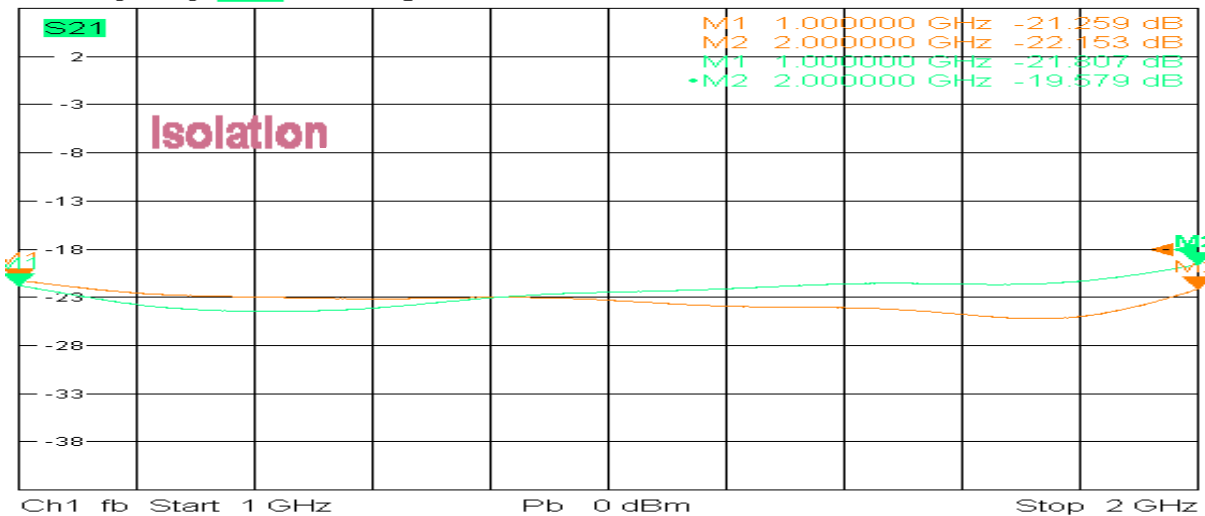
8/30/2018, 10:28 AM

### 2. Isolation



Trc3 **S21** dB Mag 5 dB / Ref -18 dB Cal  
Mem7[Trc3] **S21** dB Mag 5 dB / Ref -18 dB

3 (Max)



8/30/2018, 11:09 AM

