

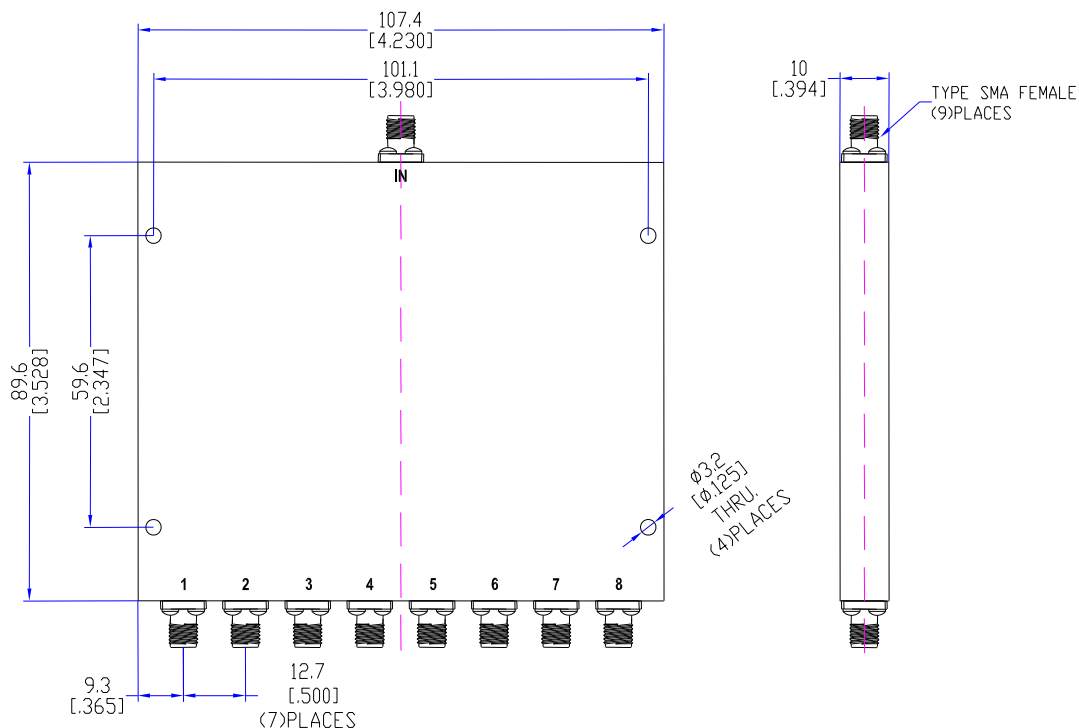
## Model TPD20120A8

### Features

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

Technical Data Sheet			
Frequency Range	2~12GHz	Finish	Painted Blue_ RAL #5007
Insertion Loss	≤2.0dB (Above 9.03dB Split)	Connector Body	Passivated Stainless Steel
VSWR	Input ≤1.60:1 Output ≤1.50:1	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	≤±8°	Operating Temperature	-55~+85°C
<sup>1</sup> Power Handling	Forward ≤30Watt; Reversed ≤1Watt	Operating Humidity	Up to 95%, Non- Condensing
Impedance	50Ω	Weight	260g
Port Connectors	SMA-Female		

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

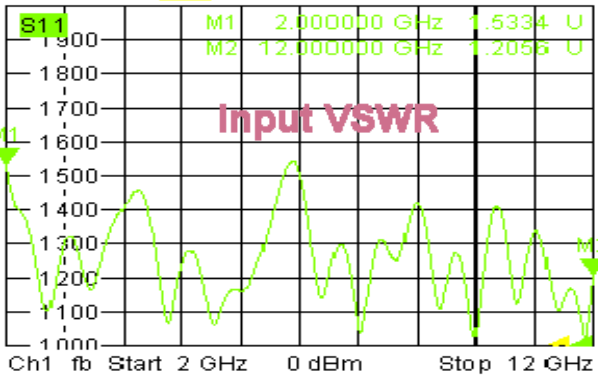


## Typical Performance

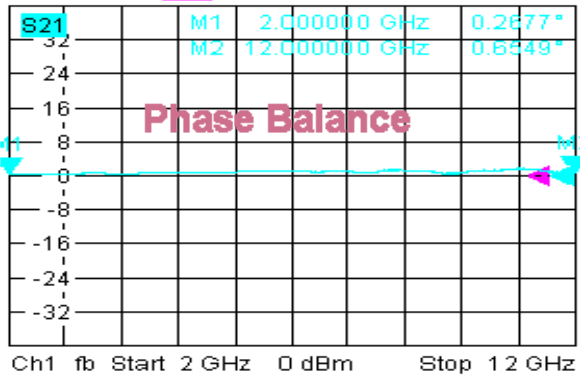
### 1. Insertion Loss, Amplitude & Phase Balance, VSWR



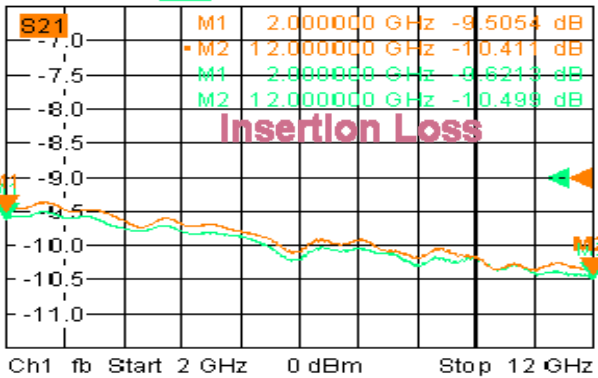
Trc1 Mem5[Trc1] S11 SWR 100 mU/ Ref1 U Cal  
S11 SWR 100 mU/ Ref1 U Invisi



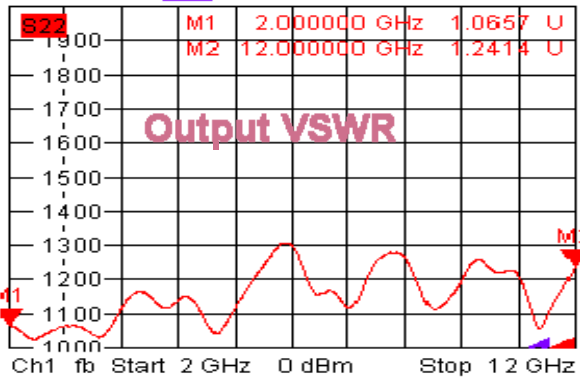
Trc2 Mem6[Trc2] S21 Phase unwrap 8° / Ref0° Cal  
S21 Phase unwrap 8° / Ref0° Invisi



Trc3 Mem7[Trc3] S21 dB Mag 0.5 dB / Ref -9 dB Cal  
S21 dB Mag 0.5 dB / Ref -9 dB Invisi



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

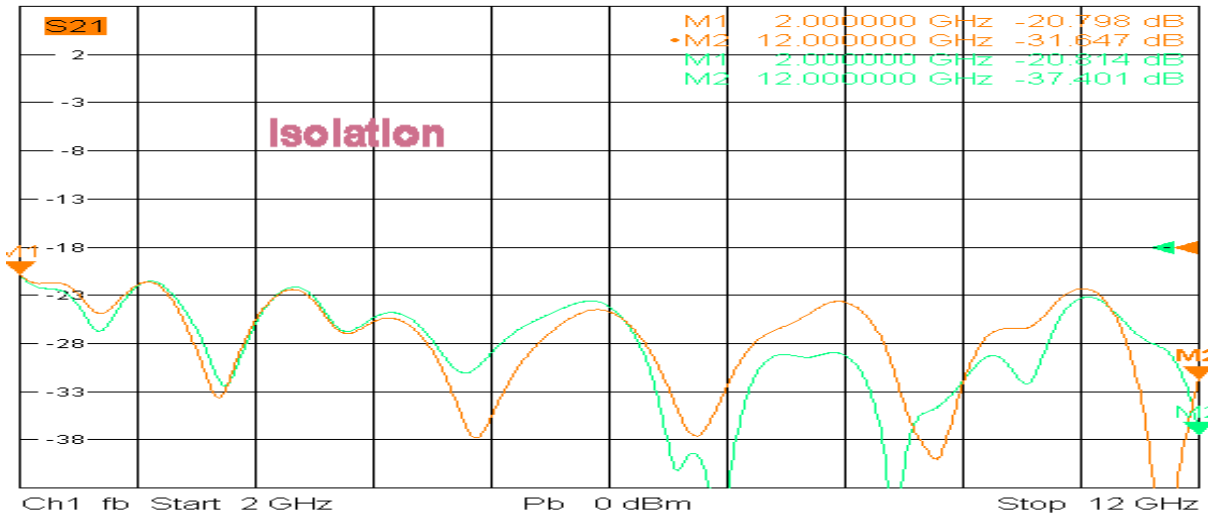


2. 5/8/2019, 10:55 PM

### 2. Isolation



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



5/8/2019, 10:44 PM

