

## Model THC2025U

Technical Data Sheet			
Frequency Range	2.0~2.5GHz	Finish	Painted Blue_ RAL #5007
Nominal Split	6.02dB	Connector Body	Passivated Stainless Steel
Insertion Loss	≤0.9dB	Housing	Aluminum, 6061 T6
Isolation	≥18dB		Clear Chem Conversion Film
Amplitude Balance	≤±0.6dB	Connector Pin	Beryllium Copper, Gold Plate
Phase Balance	≤±6°	Solder	Lead Free, RoHS Compliant
VSWR	≤1.40:1	Operating Temperature	-55~+85°C
<sup>1</sup> Power Handling	Average ≤50Watt Peak ≤1KW	Operating Humidity	Up to 95%, Non- Condensing
Impedance	50Ω	Weight	180g
Port Connectors	SMA-Female		

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

**Table 1: Output magnitude with 4 identical input signals at A,B,C and D**

Output	Value (dB)
ΣAZ	<-2
ΔEL	<-23
ΔAZ	<-23
ΔQ	<-23

**Table 2: Phase Offset for each port in reference to normalized A to ΣAZ.**

	ΣAZ	ΔEL	ΔAZ	ΔQ
Phase Offset for Input A	0	-90	180	90
Phase Offset for Input B	0	-90	0	-90
Phase Offset for Input C	0	90	180	-90
Phase Offset for Input D	0	90	0	90

**Table 3: Isolation at A,B,C and D.**

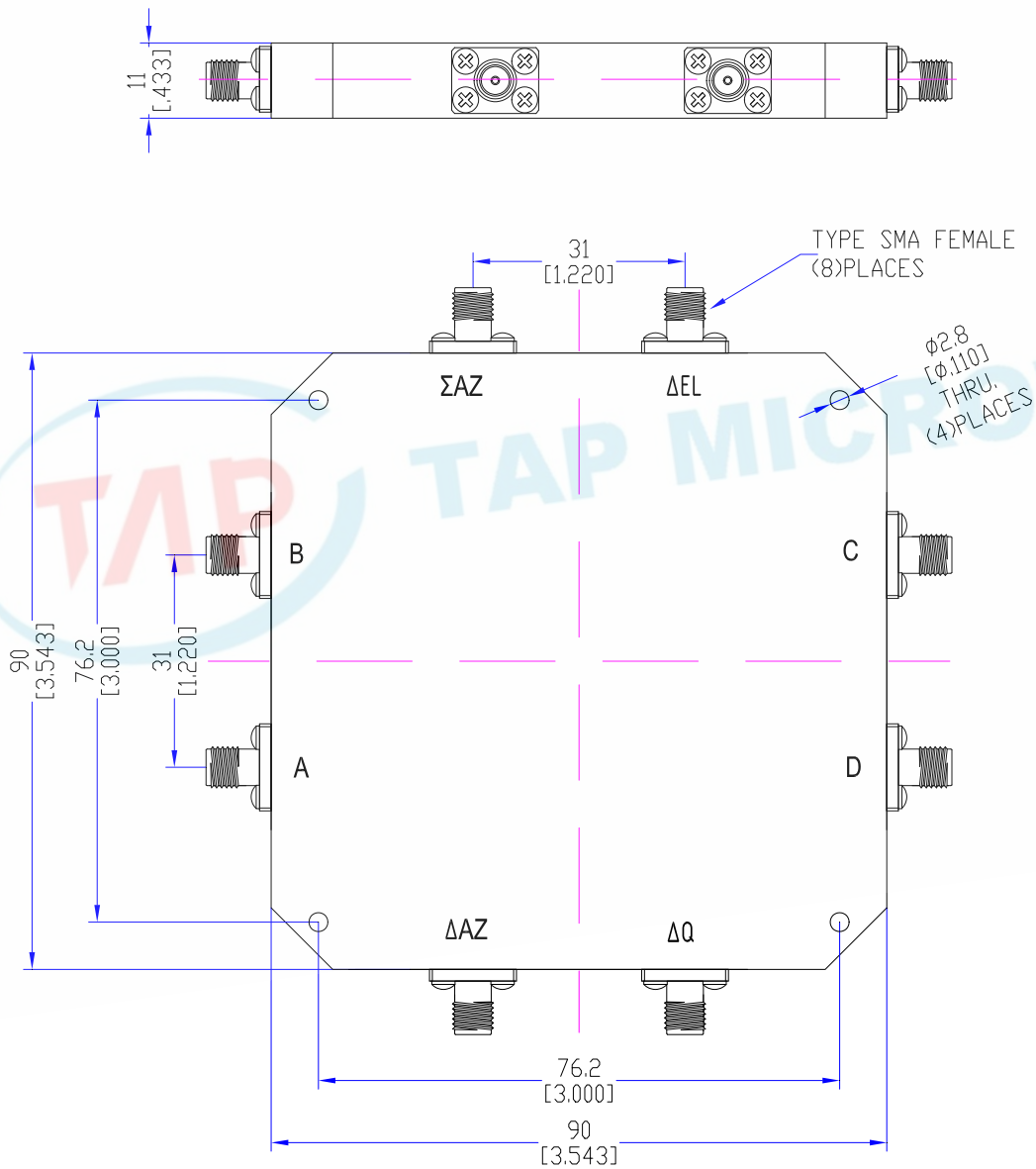
	A	B	C	D
A	X	ISO	ISO	ISO
B	ISO	X	ISO	ISO
C	ISO	ISO	X	ISO
D	ISO	ISO	ISO	X



**Table 4: Isolation at  $\Sigma$ AZ, $\Delta$ EL, $\Delta$ AZ and  $\Delta$ Q.**

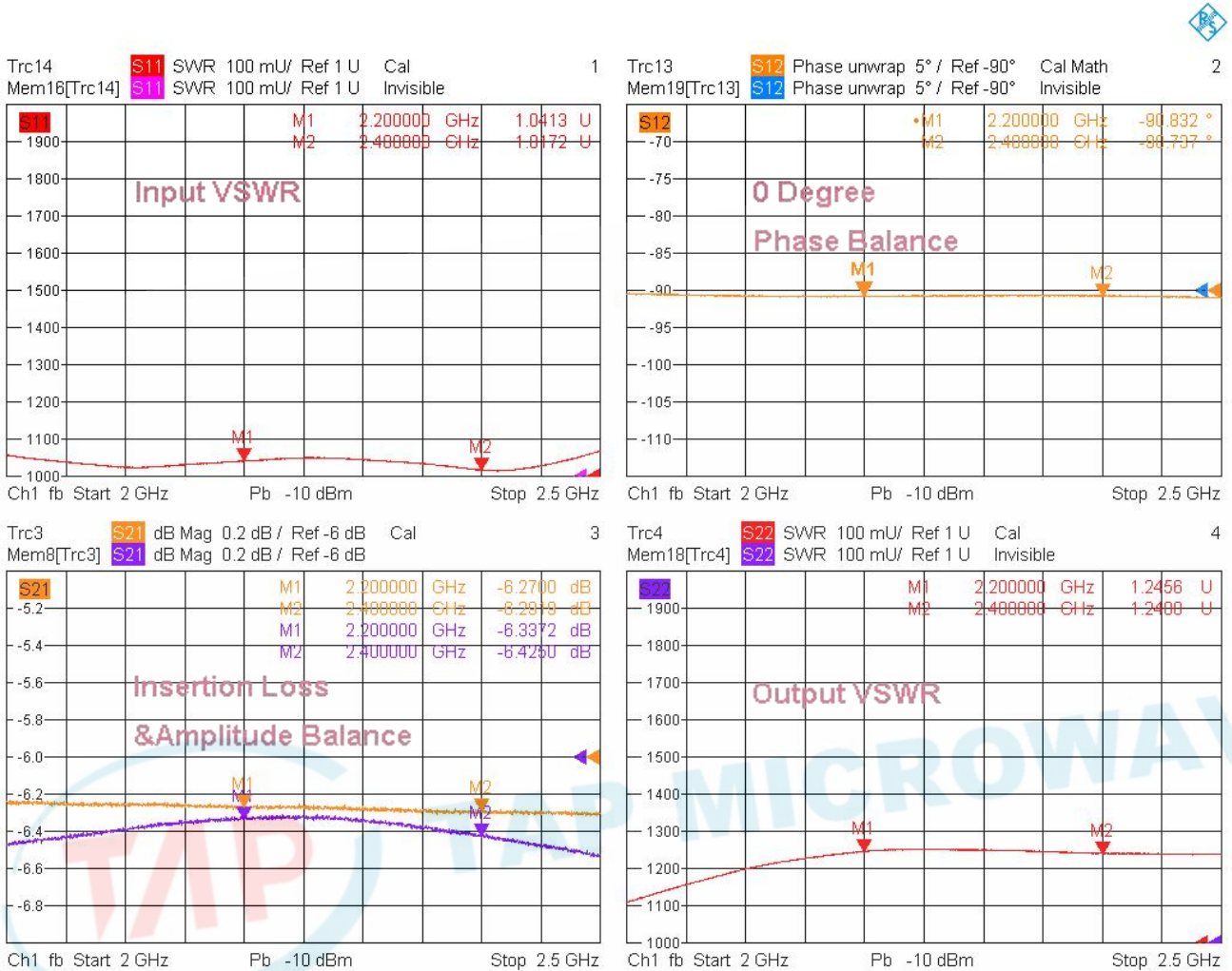
	$\Sigma$ AZ	$\Delta$ EL	$\Delta$ AZ	$\Delta$ Q
$\Sigma$ AZ	X	ISO	ISO	ISO
$\Delta$ EL	ISO	X	ISO	ISO
$\Delta$ AZ	ISO	ISO	X	ISO
$\Delta$ Q	ISO	ISO	ISO	X

**Outline Drawing**



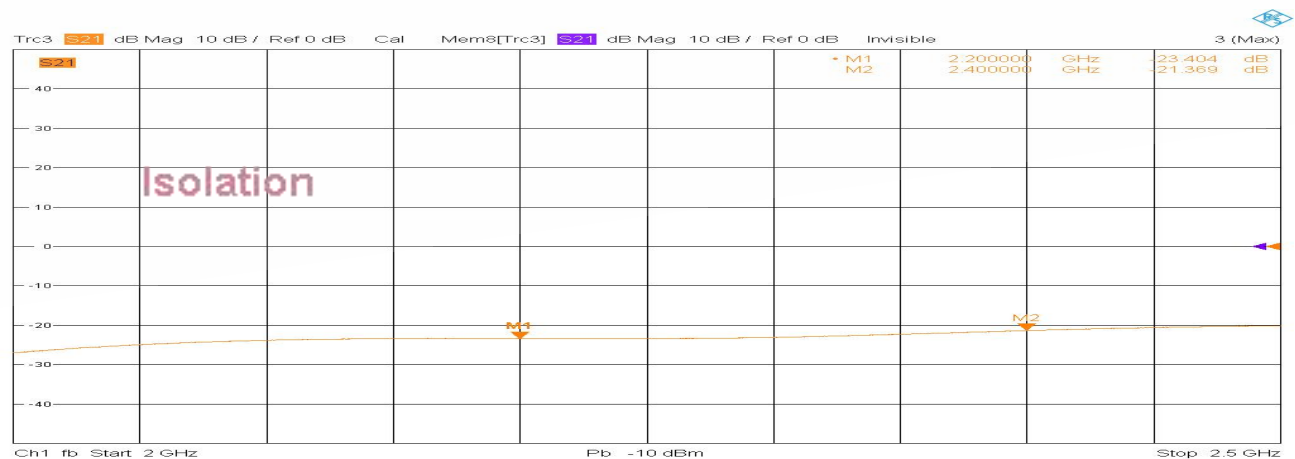
## Typical Performance

### 1. Insertion Loss, Amplitude & Phase Balance, VSWR\_ 0°



5/6/2024, 6:53 PM

### 2. Isolation



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