

DPDT Waveguide Switch

Latching, 33 to 50 GHz, WR-22

Model: TWS-WR22

Electrical Characteristics:

Parameter	Min	Typ	Max	Unit
Frequency Range	33		50	GHz
Control Mode	Latching, Manual/Electric			
Switching time@TEM=25°C			50	ms
Standard Actuator Life	100000			Cycles
Actuator voltage Available		24		V DC
Actuator current@TEM=25°C			1	A

RF Specifications:

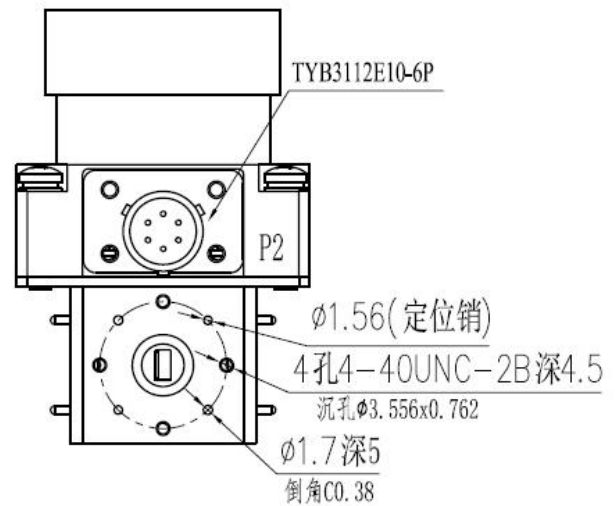
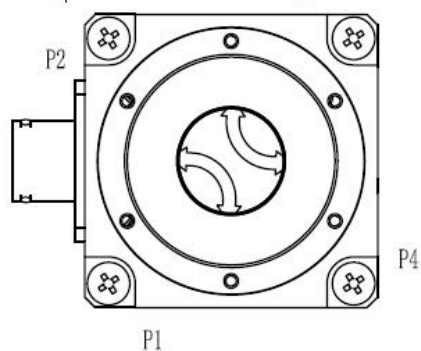
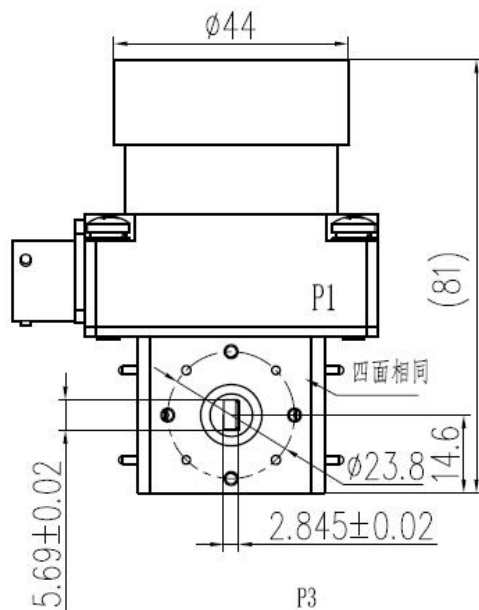
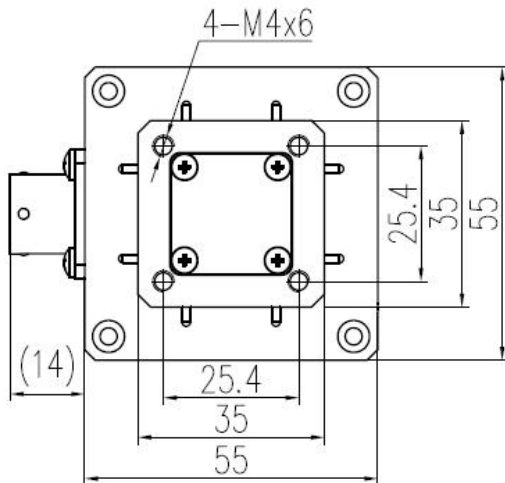
Parameter	Min	Typ	Max	Unit
Frequency Range	33		50	GHz
Insertion Loss			0.2	dB
Isolation	50			dB
VSWR			1.2	:1

Envrionmental And Physical Characteristics:

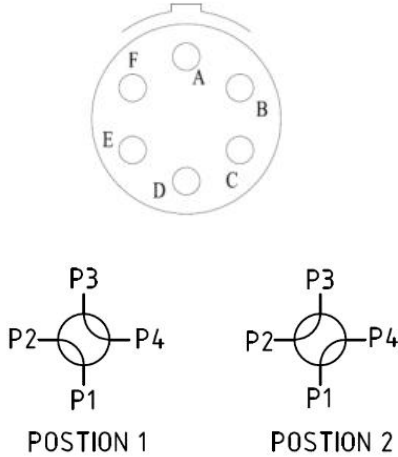
Parameter	Condition
Operating Temperature	-40°C to +70°C
Non-operating Temperature	-50°C to +80°C
Vibration(operating)	10G RMS, 20-2000HZ
Shock(non operating)	50G, 1/2Sine, 12msec
Connector Type	WR-22
Control Connector	TYB3112E10-6P

Outline Drawing:

Unit: mm



Schematic:



MS3221E10-6P		RF Connect Used
Pin NO	FUNCTION	DPDT
A	V1 POSTION1	POS1:P1-P2,P3-P4
B	GND	
C	V2 POSTION2	POS2:P1-P4,P2-P3
D	IND POSTION1	D-E ON; E-F OFF
E	IND COM	
F	IND POSTION2	D-E OFF;E-F ON

Outline Drawing:

Part Number	Actuator voltage	Revision
TWS-WR22	24 V	Rev.1.0

Notes:

- 1) When the waveguide switch is powered, it is necessary to ensure that the wiring ends are connected accurately.
- 2) The waveguide switch cannot be switched with load to avoid burning products and equipment.
- 3) The waveguide port in the unconnected circuit should be loaded.
- 4) If the waveguide switch is not used for a long time, each port of the waveguide should be covered with dust cover protection.
- 5) All screws on the product shall not be loosened at will, and can be installed under the guidance of professionals.