

## Waveguide Switch

Waveguide switch, commonly used to change the signal pathway in the waveguide transmission system, usually, in accordance with drive modes, they can be classified into sub-electric and manual; If by structure, they are classified into sub-E and H-waveguide switches, with rectangular waveguide switches and double ridge waveguide switches. DH series models frequency are covering from 2.60 GHz to 110GHz. Features with high stability, good accuracy and fast response.

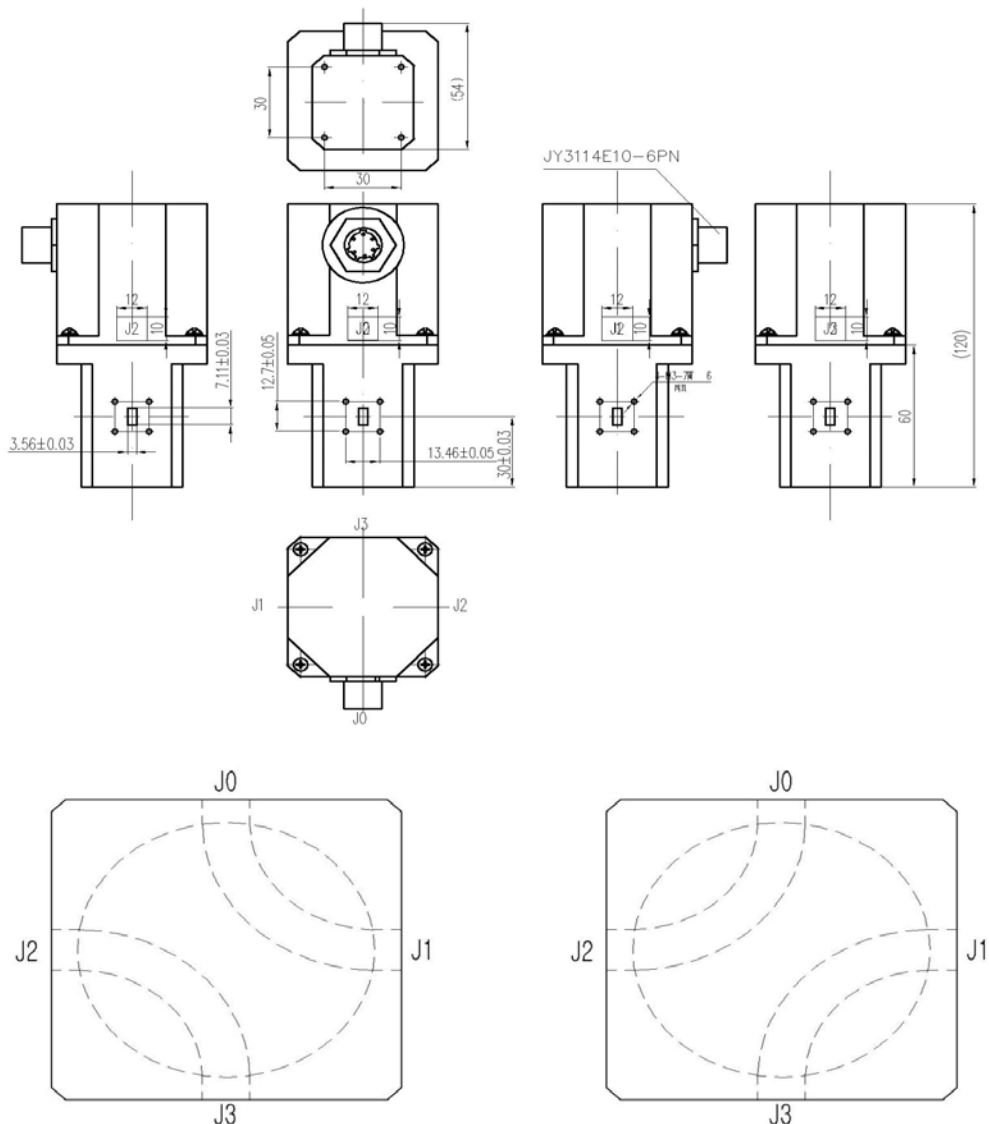


- **Technical Specification**

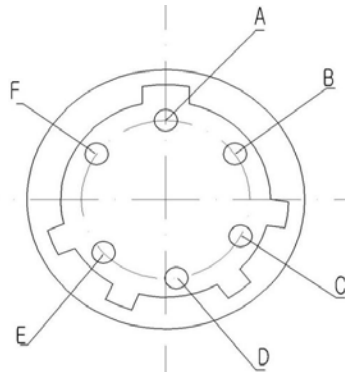
<b>WR28 Waveguide Electronic Switch</b>	
<b>Electrical Specifications</b>	
<b>Model</b>	DH-320WESMDA (WR28)
Frequency Range	26.5-40.0 GHz
VSWR	$\leq 1.15:1$
Isolation	$\geq 65$ dB
IL	$\leq 0.2$ dB
Handling Power, CW	1000 W
Conversion Time	$\leq 120$ ms
Control Mode	Dual Power
Power Voltage	$27V \pm 10\%$ ( 0.5A )
Control Interface	6-pin Aviation Plug (JY3114E10-6PN)
Output Signal	Two groups of on-off signal
<b>Mechanical Specifications</b>	
Waveguide Type	BJ320(WR28)
Flange	FBP320
Switch Type	Double Pole Double Throw, DPDT
Waveguide Ports	0,1,2,3. the identification of 4 waveguide ports

Switch Position	Position 1, Position 2
Position 1	Waveguide Port 0-1 pass / 2-3 pass
Position 2	Waveguide Port 0-2 pass / 1-3 pass
Tightness Class	IP 66
Material	Al
Inside Finish	Conductive oxidation
Outside Finish	Anticorrosion Black Paint
Temperature	-55°C ~ +85°C

● Outline Drawing (Size: mm)



● **Control Interface Specification**



Aviation Plug 6-pin layout.

No.	Definition	Description
A	Power/Ground	Switching the power supply, when A is connected to +27V and B is grounded for a duration of 120ms ± 20ms, the switch is in state I (J0 and J1, J2 and J3 are on).
B	Ground/ Power	Switching power supply, when A is grounded, B is connected to +27V, and the duration is 120ms±20ms, the switch is in state II (J0 and J2, J1 and J3 are on)
C	Connect to Micro Switch	Switch state signal, when the switch is in state I, pins C and D are turned on.
D	Connect to Micro Switch	It is recommended to connect the signal voltage +5V (connect a 100Ω resistor in series)
E	Connect to Micro Switch	It is recommended to connect the signal voltage +5V (connect a 100Ω resistor in series)
F	Connect to Micro Switch	Switch state signal, when the switch is in state II, pins E and F are turned on.