

# VT500WDESMD

## Waveguide Electromechanical Switch

### Features:

- Full Waveguide Band Coverage
- DPDT, Optional SPDT Configuration
- Equipped with Position Indicator

### Applications:

- Transmit-Receive system
- Electronic Countermeasures System
- Commercial Ground Stations



### Electrical Specifications

Parameter	Minimum	Typical	Maximum	Units
Frequency	40		60	GHz
VSWR			1.2	
Insertion Loss			0.5	dB
Isolation	45			dB
Average Power			60	W
Peak Power			2.5	KW

### Mechanical Specifications

Parameter	Specifications
Waveguide Type	WR19
Flange Type	UG-383/U-M
Material	Brass
Inside Finish	Gold plating
Outside Finish	Black paint with control part
Weight	0.8 kg
Operating Temperature	-40°C~+70°C
Storage Temperature	-55°~ +85°C
Relative Humidity	80%
IP Level	IP54

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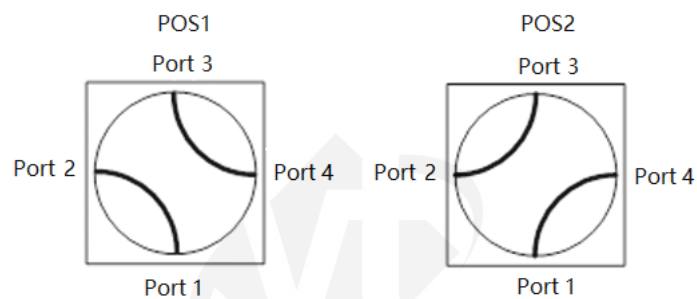
### Control Specifications

Parameter	Specifications
Control Mode	Electric, Manual
Control Connector	Y50X-0807
Operating Mode	Power off protection type
Current	+22V ~ +32V
Voltage	1A
Switch Time (Max)	80ms
Switch Lifetime (Min)	100,000 times

### Wiring Definition

Pin Definition	Function	Note
1	VCC1 (24V)	VCC1 (POS1)
2	GND	
3	VCC2 (24V)	VCC2 (POS2)
4	J1	POS1: J1 and COM conducting
5	COM	Signal common port
6	J2	POS2: J2 and COM conducting

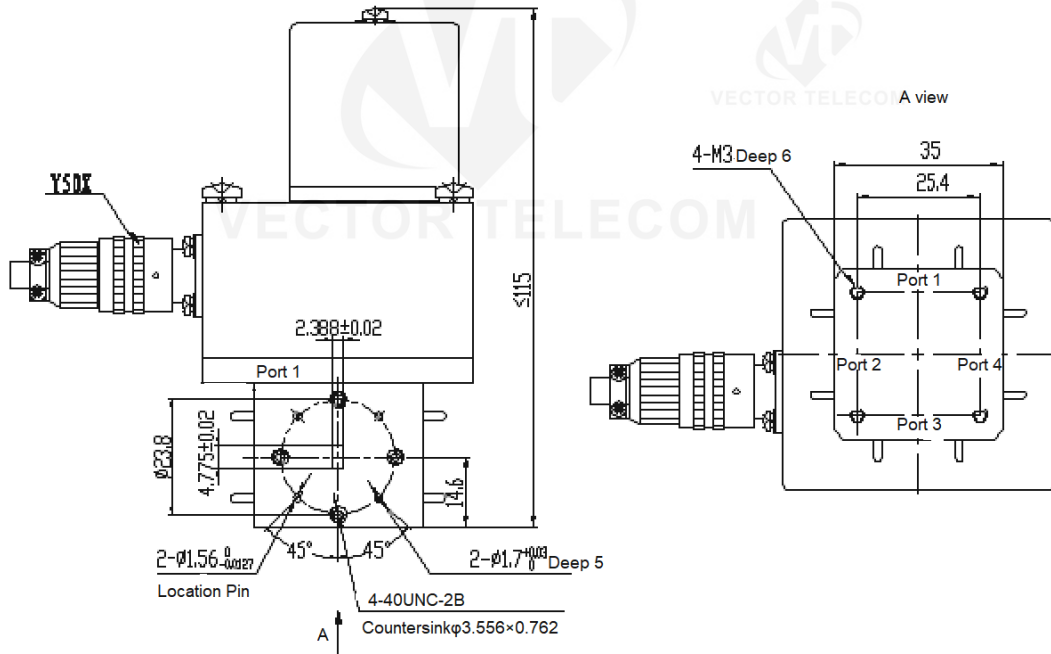
#### Port Status Diagram



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**Outline Drawings** (Unless otherwise specified, all dimensions are in millimeters)



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### Revision History

Date	Revision	Changes
08-April-2021	1	First release

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