

VT70WDESMD

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	5.38		8.17	GHz
VSWR			1.15	
Insertion Loss			0.15	dB
Isolation	70			dB
Average Power			3	KW
Peak Power			500	KW

Mechanical Specifications

Parameter	Specifications
Waveguide Type	WR137
Flange Type	UDR70
Material	Aluminum
Inside Finish	Natural conductive oxidation
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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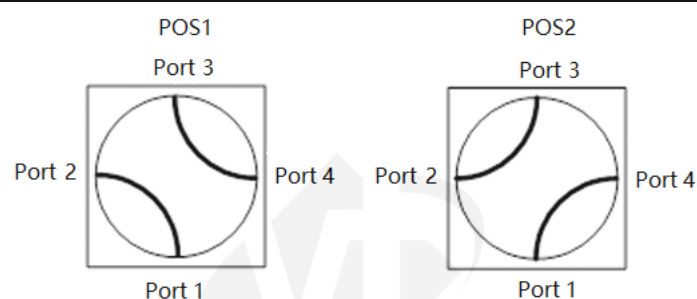
Control Specifications

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

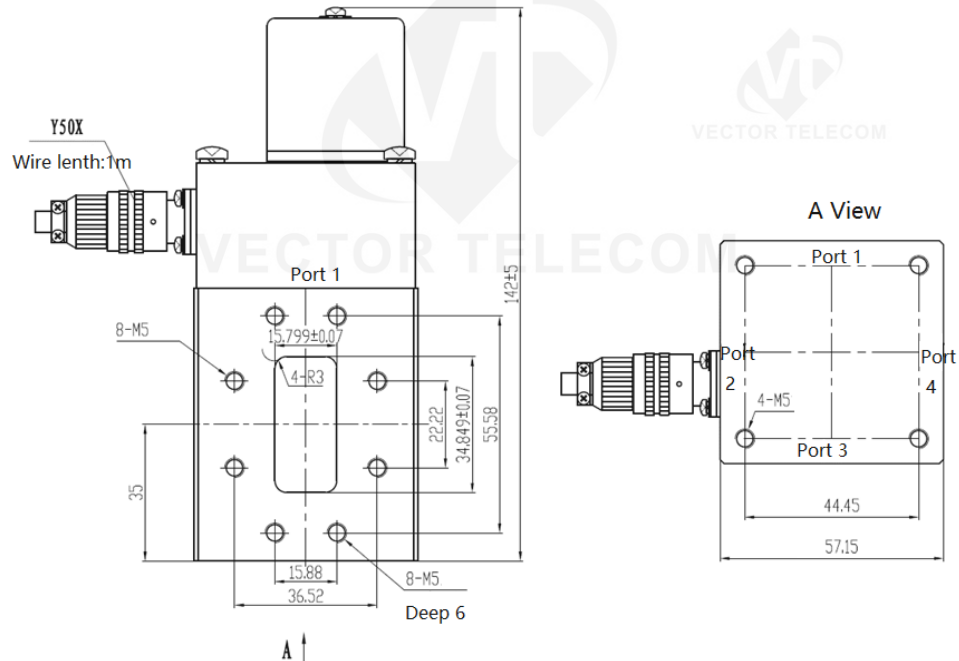
Port Status Diagram



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



Waveguide Electromechanical Switch**Revision History**

Date	Revision	Changes
09-Oct-2019	1	First release

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