

Waveguide Electromechanical Switch 26.5-40GHz



Features

- Full band operation
- Low VSWR
- Rugged mechanical configuration

Typical Applications

- Transceivers
- Test setups
- Instrumentation
- Subsystems

Electrical Specifications, TA=25°C

Parameters	Min	Typ	Max	Units
VSWR			1.15	
Insertion Loss		0.3		dB
ISOLATION		55		dB
SWITCHING TIME		80		(ms) Max
Flange Type		Cover		
Waveguide		WR28		
Weight		0.51		kg

Reliability Test Matrix

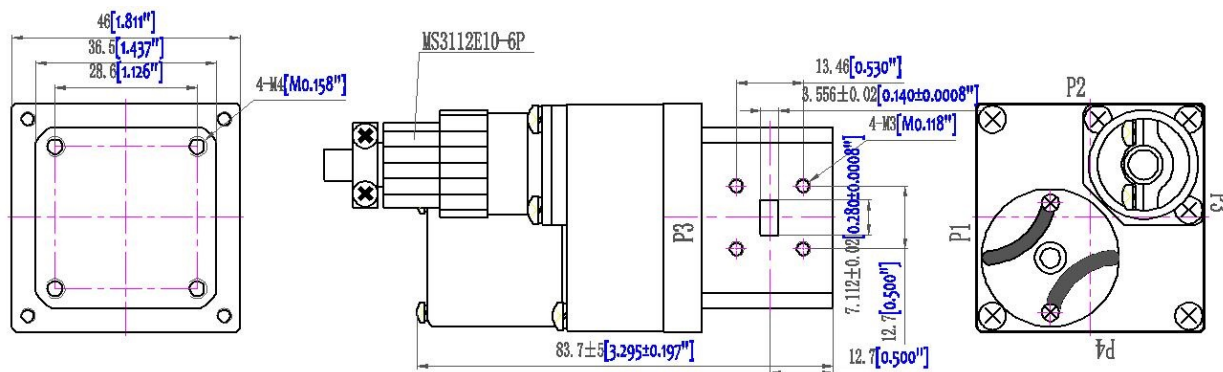
Parameter	Description
Operational Temperature	-40°C~+85°C (Case Temperature)
Storage Temperature	-50°C~+105°C
Thermal Shock	-40°C~+85°C (5 cycles/ 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
Shock	1.Weight>20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2.Weight≤20g, 100g half sine wave for 6ms, Speed variation 3.75m/s 3.Total 18 times (6 directions, 3 repetitions per direction.)
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 Ft 1.0 PSI min)

VSWR:



Outline Drawing:

All Dimensions in mm [inches]



Wiring Definition

Pin Definition	Function	Note	Port Status
1	VCC1 (24V)	VCC1 (POS1)	POS1 2
2	GND		
3	VCC2 (24V)	VCC2 (POS2)	
4	J1		POS2 2
5	J2 (Com)	POST1: J1 and J2 conducting	
6	J3	POST2: J3 and J2 conducting	

Control Specifications

Parameters	Specifications
Control Mode	Electric, Manual
Voltage	+22 V~+32 V
Current	1 A
Power Handling	100 W (CW), 5 KW (Peak)

The tolerance noted is just for reference

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