

DPDT Coaxial Switches



DPDT-V12T18 /DPDT/SMA/Latching/12VDC/TTL/ DC-18GHz/DSUB-9/Electronics Type Indicator
 DPDT-V24T18 /DPDT/SMA/Latching/24VDC/TTL/ DC-18GHz/DSUB-9/Electronics Type Indicator
 DPDT-V28T18 /DPDT/SMA/Latching/28VDC/TTL/ DC-18GHz/DSUB-9/Electronics Type Indicator
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Electrical Characteristics:

Parameter	Condition
Frequency range	DC-18 GHz
Impedance	50 Ω
Operation mode	Latching
Switch sequence	Break before make
Switching time	15 ms max
Mechanical life	2 million min
TTL input	0-0.8 V(OFF), 2.4-5 V(ON)
Rated voltage	12 24 28 VDC
Operating current at 23 °C	400 180 230 mA
Indicator rating	Electronic Type Indicator Max withstand voltage: 60VDC Max current capacity: 100mA Max "ON" resistance: 16Ω Note: VDCi and COM- must be connected to operate.

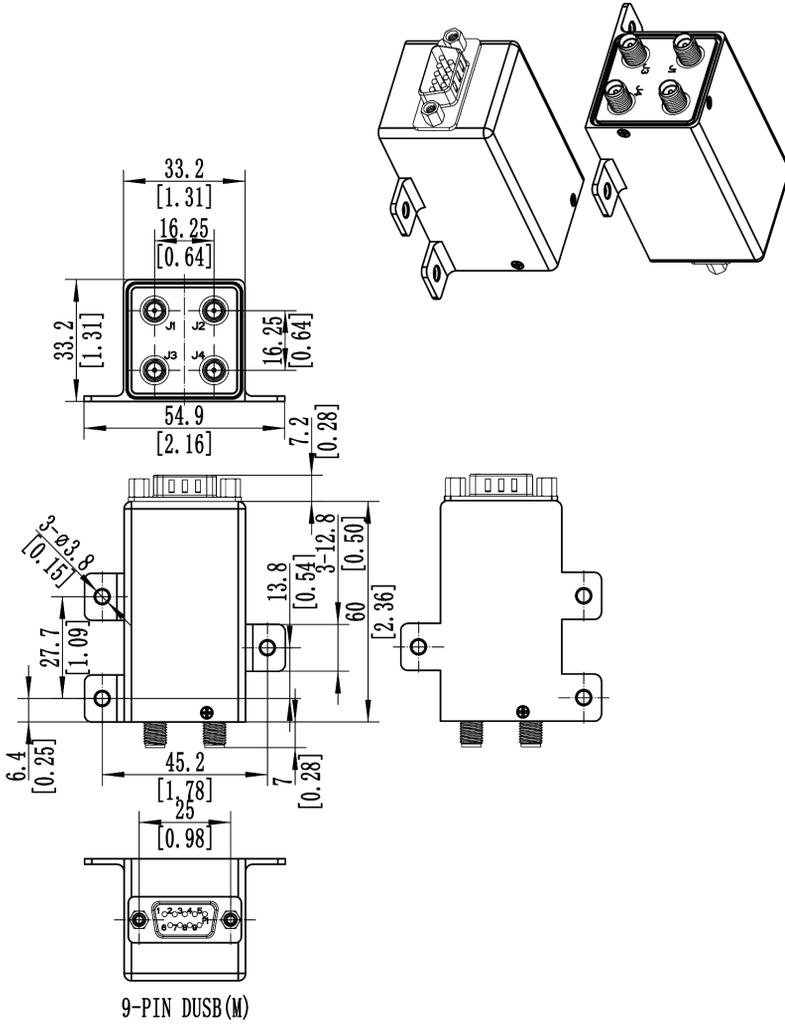
RF Specifications:

FREQUENCY RANGE(GHz)	DC-6	6-12	12-18
INSERTION LOSS (MAX) dB	0.2	0.25	0.4
ISOLATION (MIN) dB	70	70	60
V.S.W.R. (MAX)	1.3:1	1.4:1	1.5:1

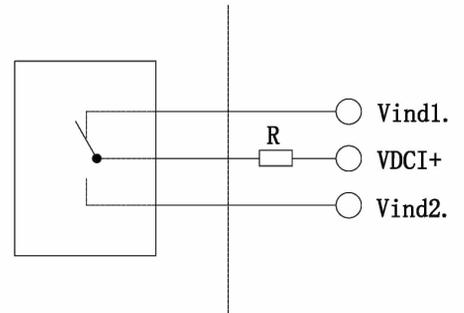
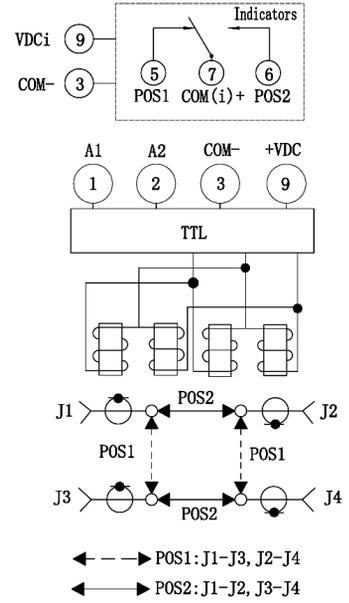
Environmental And Physical Characteristics:

Parameter	Condition
Operating temperature range	-25°C to +65°C(Standard) -55°C to +85°C(Optional)
Sine vibration(Operating)	20-2000Hz , 10g
Shocks(Non Operating)	50g / 11ms, ½ sine
RF Connector type	SMA Female
Control connector	D-SUB 9 Pin Male
Weight	120g Max

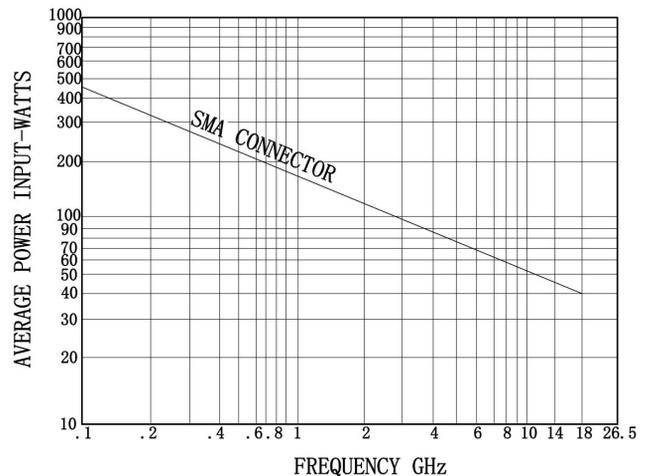
Outline Drawing: Unit: mm



Schematic:



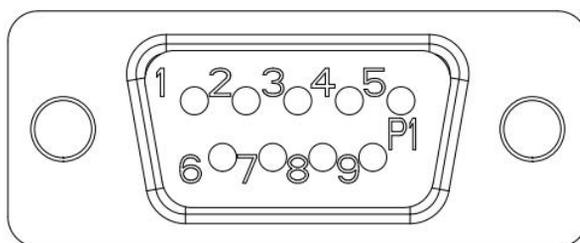
Average power:



This graph is based on the following conditions:

- Ambient temperature: + 25 °C
- Sea level
- V.S.W.R.: 1 and cold switching

Pin Definition:

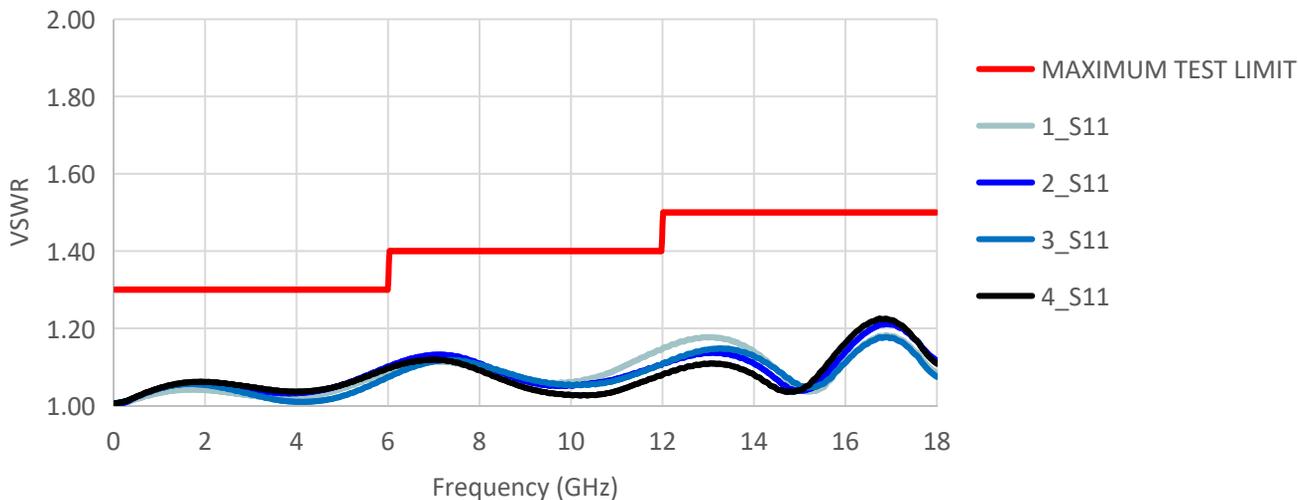


9 PIN D-SUB		RF Connect Used
Pin NO.	Function	DPDT
1	A1(TTL IN)	POS1:J1 - J3,J2 - J4
2	A2(TTL IN)	POS2:J1 - J2,J3 - J4
3	COM-	
4	UNUSED	
5	1(IND.)	POS1:J1 - J3,J2 - J4
6	2(IND.)	POS2:J1 - J2,J3 - J4
7	COMi(IND.)(V+)	
8	UNUSED	
9	+VDC/VDCi	

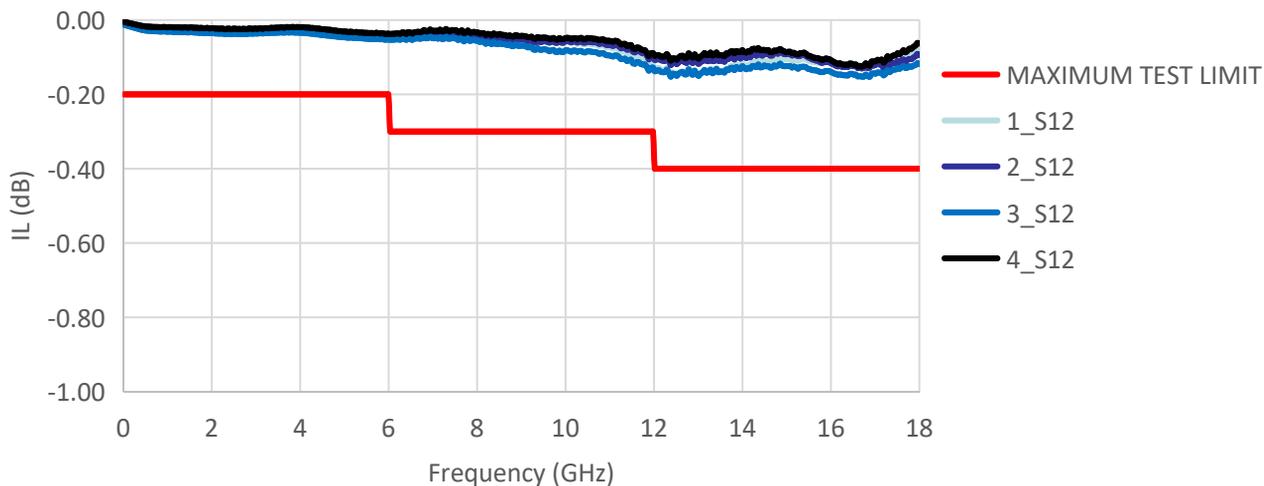
Part Number	Actuator voltage	Option
DPDT		
DPDT-V12T18	12VDC	- S
DPDT-V24T18	24VDC	The S model conforms to the IP65 standard(65)
DPDT-V28T18	28VDC	

Typical Performance Data:

VSWR



INSERTION LOSS



ISOLATION

