



SPDT Reflective Electro - Mechanical Switch DC - 26.5GHz



Features

- SPDT configuration
- Magnetic latching
- Operating life of 1 million cycles
- Guaranteed repeatability of 0.05dB up to 1 million cycles
- Excellent isolation, typically >80 dB to 20GHz
- Terminated ports
- TTL / 5V CMOS compatible (Optional)

Description

RF-Lambda's multiport switch offers low insertion loss and high isolation, which is necessary for high performance test systems. The repeatability and reliability of this switch is vital to ATS measurement accuracy and can cut the cost of ownership by reducing calibration cycles.

Our electro-mechanical switches are made through RF-Lambda's rigorous design and tight manufacturing specifications.

Part Number	description	Type	Low Freq (GHz)	High Freq (GHz)	Avg. Power (Watts)
RFSPDT26EMA	Electromechanical Switches	SPDT	DC	26.5	2 (hot switching)
Insert. Loss (dB)	VSWR (Max:1)	Isolation (dB)	Actuator Type	Switching Speed (ms)	Contact
0.5(DC~12.4 GHz) 1.0(12.4~26.5GH)	1.5(DC~12.4 GHz) 1.8(12.4~26.5GH)	80(DC~12.4 GHz) 60(12.4~26.5GHz)	Latching Holding reflection	20	Break Before Make
Repeatability (dB) max.	Life Cycles (Times)	Connector	Biasing (VDC)	Current (A)	Control
0.05	1,000,000	3.5mm	15	0.2	Ground Type

* Result taken at 25°C +15VDC

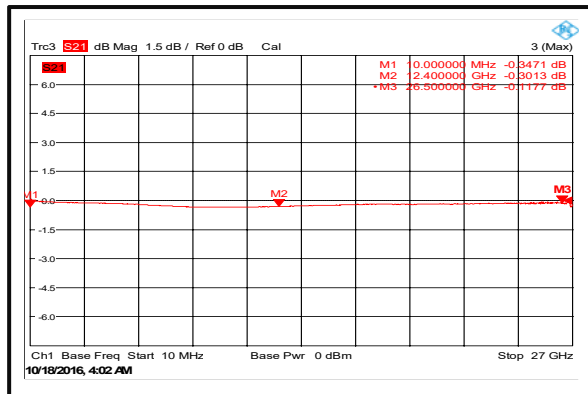


Environmental Specifications

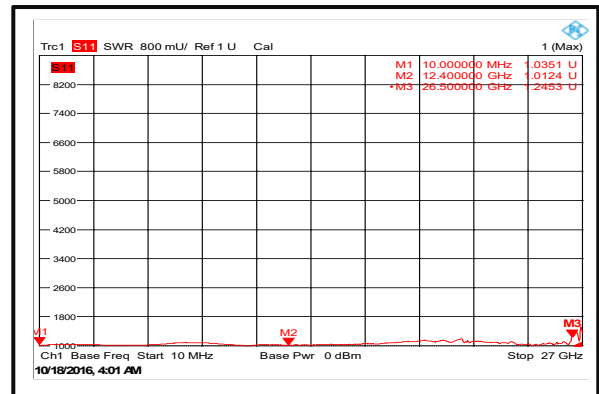
Operating temperature:	-25 to 75° C
Storage temperature:	-55 to 85° C
Thermal Shocking:	-25 to 70° C (1.5 hours holding, 10 times.)
Sine Vibration:	25 grams rms
Life Cycles:	1,000,000 times
Vibration:	20 grams rms.
Moisture resistance:	65° C, 95% RH, 10 days per MIL-STD-202F, Method 106E
Altitude storage:	30,000 feet (per MIL-STD-202F, Method 105C, Condition B)
RFI:	Per MIL-STD-461C, RE02, Part 4
Magnetic field:	<5 gauss 1/4 inch from surface
Hot switching:	2W CW 100W peak, 10us max pulse width

Typical performance plots

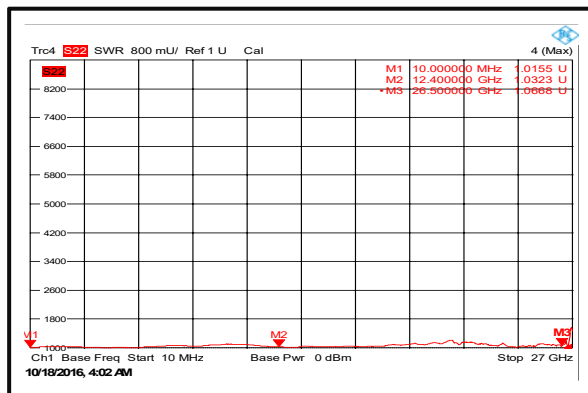
Insertion Loss



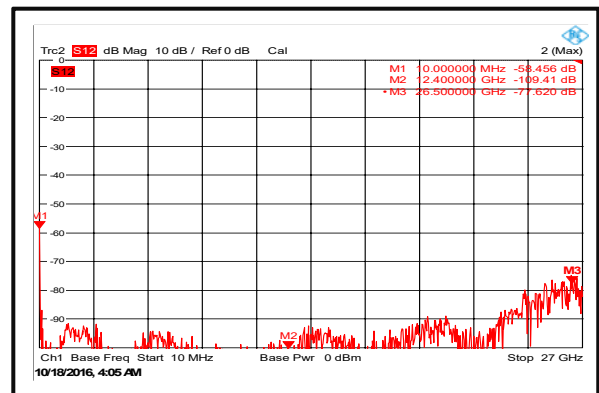
Input VSWR



Output VSWR



Isolation





RF-LAMBDA

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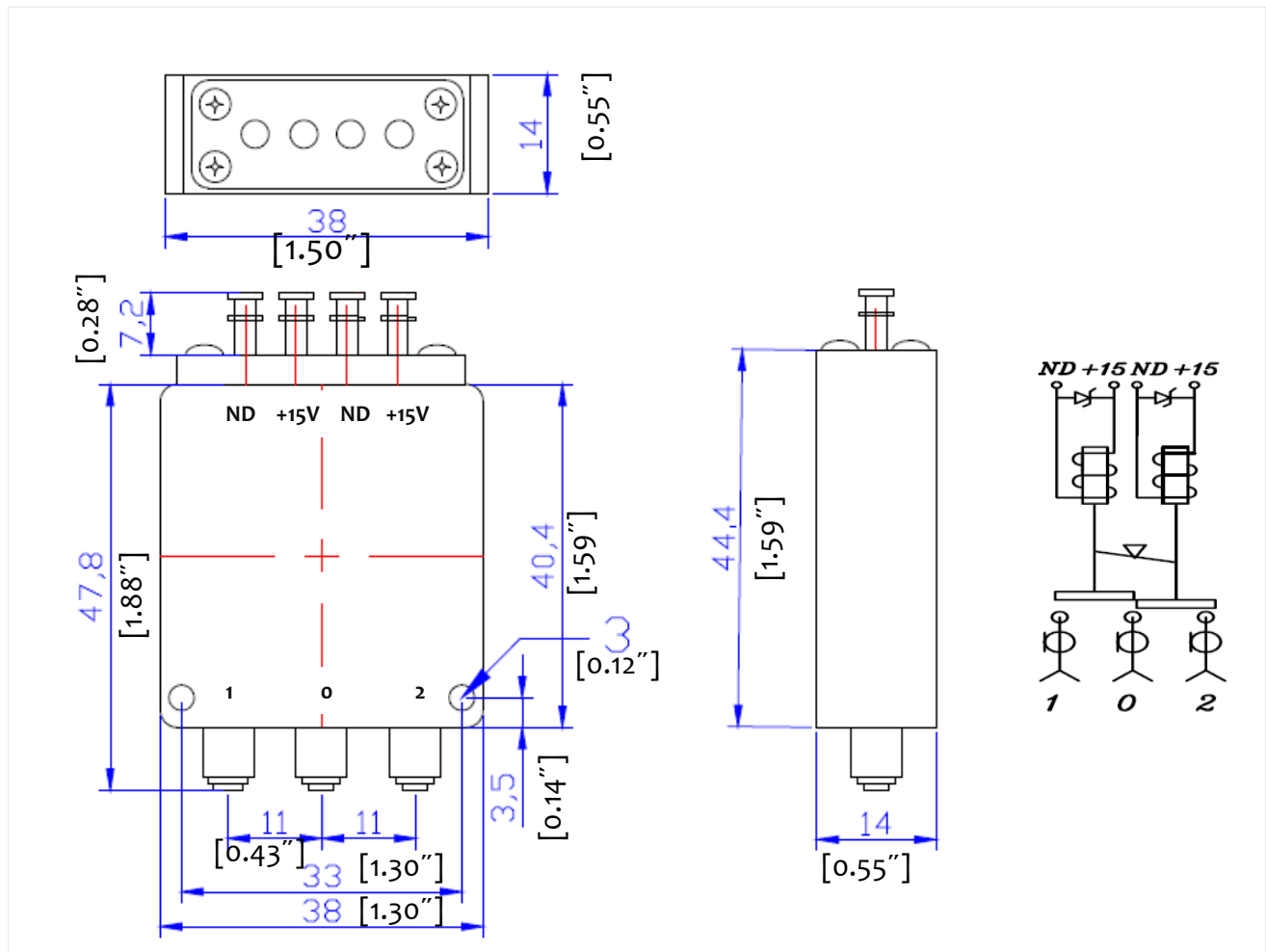
RFSPDT26EMA

PIN STATUS	I	II	III	IV
PORT 0 TO PORT 1	GND	15V	OPEN	OPEN
PORT 0 TO PORT 2	OPEN	OPEN	GND	15V



Outline Drawing:

All Dimensions in mm [inches]



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