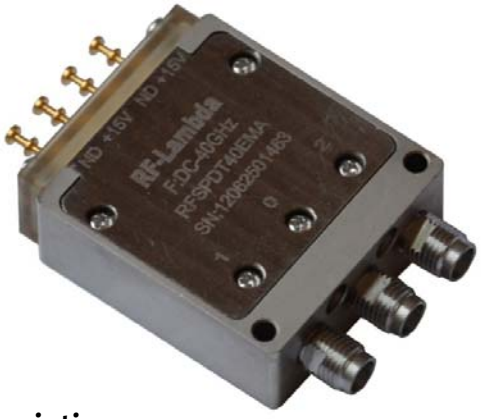
SPDT High Isolation Absorptive Electro-Mechanical Switch DC-40GHz



Features

- SPDT configuration TTL Control
- 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 multiport switch improves insertion loss repeatability and isolation, which is necessary for higher 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 and increasing test system up time. The RF-Lambda terminated multiport switch provides the long life and reliability required for automated test and measurement, signal monitoring, and routing applications. Highly repeatable switching capability is made possible through RF-Lambda's rigorous design and tight manufacturing specifications. Low insertion loss repeatability reduces sources of random errors in the measurement path, which improves measurement accuracy.

Part Number	description	Type	Low Freq (GHz)	High Freq (GHz)	Max Power Input(Watts)
RFSPDT40EMC-T	Absorptive Electromechanical Switches	SPDT	DC	40.0	2
Insert. Loss (dB)	**VSWR (Max:1)**	**Isolation (dB)**	**Actuator Type**	**Swtiching Speed (ms)**	**Contact**
0.5(DC ~ 10GHz) 0.8(10 ~ 26.5GHz) 1.5(26.5 ~ 40GHz)	1.1(DC ~ 4GHz) 1.5(4 ~ 26.5GHz) 1.9(26.5 ~ 40GHz)	90(DC ~ 4GHz) 80(4 ~ 26.5GHz) 80 (26.5 ~ 40GHz)	Latching Holding reflection	20	Break Before Make
Repeatability (dB) max.	**Life Cycles (Tims)**	**Connector**	**Biasing (VDC)**	**Current (A)**	**Control**
0.05	1,000,000	2.4mm	+12V-+20V	0.2	-TTL

SPDT High Isolation TTL Control Absorptive Electro-Mechanical Switch DC-40GHz

Environmental Specification

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

Outline Drawing: