

SP6T Absorptive Switches With Drivers

2677-Series

Features

- Broadband Frequency Ranges
- Environmentally Sealed
- TTL Compatible
- Constant VSWR

Description

M/A-COM's absorptive switches cover instantaneous multi-octave bandwidths from UHF to Ku-band. These devices offer the ability to absorb RF energy internally when in the isolation state. This matching characteristic is achieved by incorporating a diode-resistor network to provide a 50 Ohm impedance to the system. Lower RF power and increased switching time are the tradeoffs for absorptive switches. Typical insertion loss, VSWR, and isolation curves are shown below.

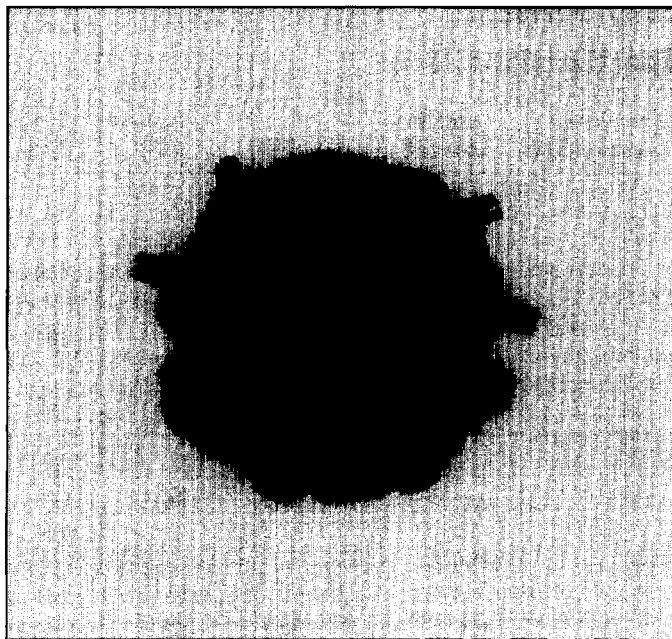
Environmental

These devices are designed to meet the following conditions:

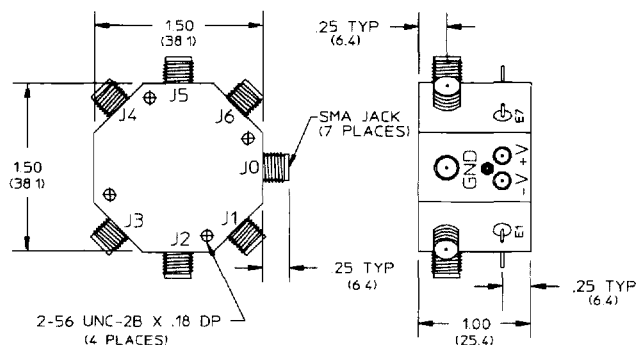
Test	MIL-STD	Method	Cond
Temperature Cycle	883	1010	C
Const. Acceleration	883	2001	A
Vibration	202	214	
Solvent Resistance	883	2015	
Salt Spray	202	101	A
Moisture Resistance	202	106	

Maximum Ratings

Storage Temp.	-65°C to +125°C
Operating Temp.	-55°C to +95°C

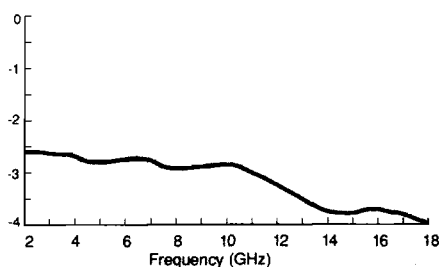


Mechanical Outline

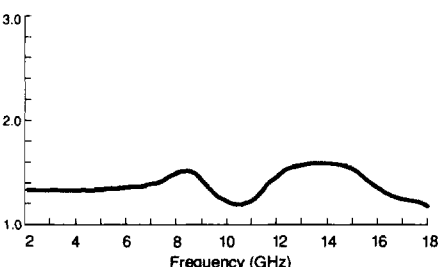


Typical Performance Data 2677-1008-XY

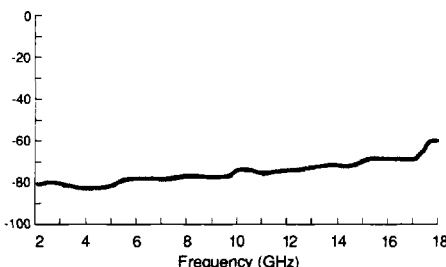
Insertion Loss (dB)



VSWR



Isolation (dB)



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Specifications 25°C

Frequency Range (GHz)	Insertion Loss (dB)	VSWR	Isolation (dB)	Transition Time (nS)	Switching Speed (nS)	Operating Power (W)	Part Number ⁵
0.5-2.0	2.0	1.60:1	60	30	50	0.1	2677-1001-XY
				150	200	0.2	2677-1002-XY
2-8	2.9	1.80:1	60	30	50	0.1	2677-1003-XY
				150	200	0.2	2677-1004-XY
6-18	4.2	2.00:1	55	30	50	0.1	2677-1005-XY
				150	200	0.2	2677-1006-XY
2-18	4.4	2.20:1	55	30	50	0.1	2677-1007-XY
				150	200	0.2	2677-1008-XY

Notes:

1. Driver current req. ± 195 mA typ.
2. Logic "0" for low loss.
3. Transition Time measured from 10% to 90% of detected RF.
4. Switch Speed measured from 50% TTL to 10%/90% detected RF.
5. Specify voltage and logic connector from option table.

- XY Option Table

	X Bias Voltage	Y Logic Conn.
0	+5V/-12V	0 Solder Pin
1	+5V/-5V	1 SMC Conn.
2	+15V/-15V	2 SMA Conn.
3	+12V/-12V	
4	+5 V/-15V	