

Transfer (DPDT) Switches With Drivers

2678-Series

Features

- Broadband Frequency Ranges
- Environmentally Sealed
- TTL Compatible
- Small Size

Description

M/A-COM's transfer switches are double-pole, double-throw PIN diode devices designed for very broadband operation with instantaneous octave and multi-octave bandwidths from UHF to Ku-band. The broadband transfer switches use an all-series diode design exclusively. Typical insertion loss, VSWR, and isolation curves are shown below.

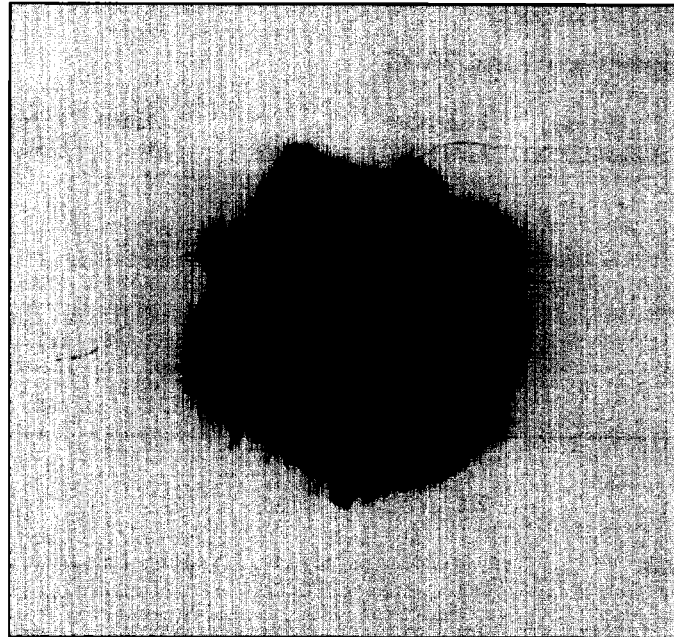
Environmental

These devices are designed to meet the following conditions:

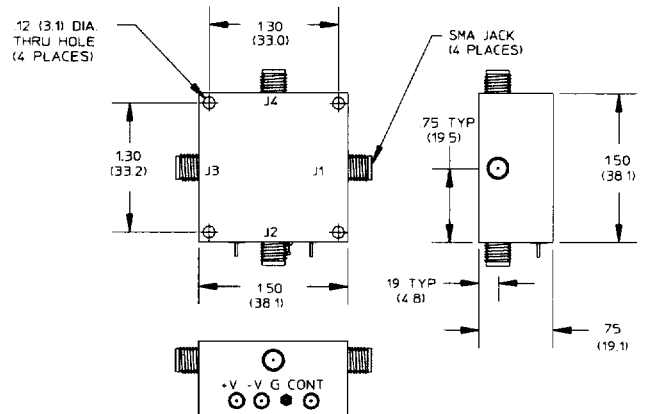
Test	MIL-STD	Method	Cond
Temperature Cycle	883	1010	C
Const. Acceleration	883	2001	A
Vibration	202	214	
Solvent Resistance	883	2015	
Salt Spray	202	101	A
Moisture Resistance	202	106	

Maximum Ratings

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

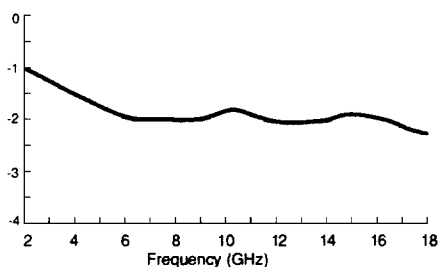


Mechanical Outline

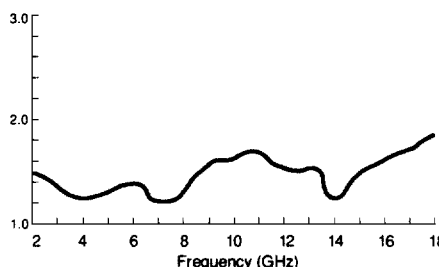


Typical Performance Data 2678-1004-XY

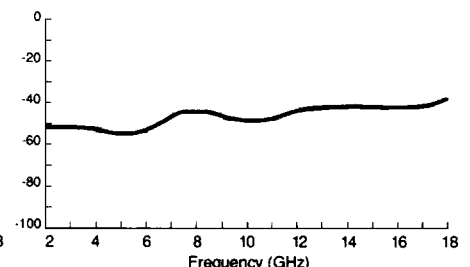
Insertion Loss (dB)



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	1.4	1.50:1	45	30	50	0.1	2678-1001
2-8	1.8	1.70:1	45	30	50	0.1	2678-1002
6-18	2.8	2.00:1	45	30	50	0.1	2678-1003
2-18	3.0	2.20:1	45	30	50	0.1	2678-1004

Notes:

1. Driver current req. $\pm 150\text{mA}$ 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	