



SPDT Reflective Switch Modules

2954 Series

Features

- Broadband Frequency Ranges
- Hermetic Package
- Stripline Compatible
- Compact Size

Description

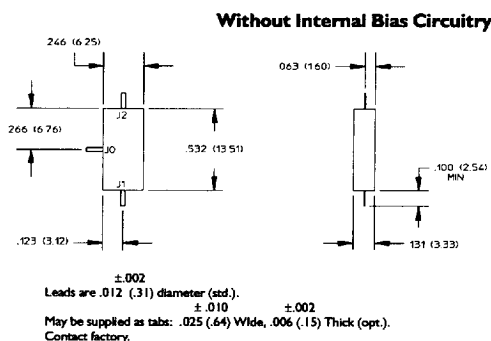
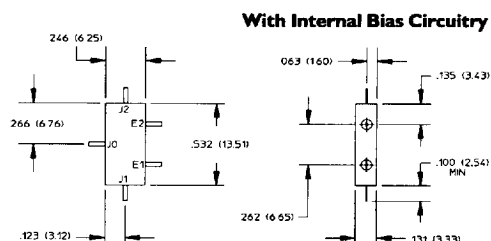
M/A-COM's switch modules cover multi-octave bandwidths from UHF to Ku-band. M/A-COM's expertise in semiconductor technology and design techniques results in devices having unique advantages that allow them to satisfy a variety of microwave system requirements.

Screening

Optional screening can be performed in accordance with the following sequence:

Test	MIL-STD	Method	Cond	
Non-Destructive Bond Pull	883	2023		
Internal Visual	M/A-COM	QCP	QAP 409	
Stabilization Bake	883	1008	B	
Thermal Cycle	883	1010	B	
Constant Acceleration	883	2001	A (Y1 Axis)	
Burn-in	883	1015	125°C	
Seal	Fine	883	1014	AI
	Gross	883	1014	CI
External Visual	883	2009		

Mechanical Outline (Top View)



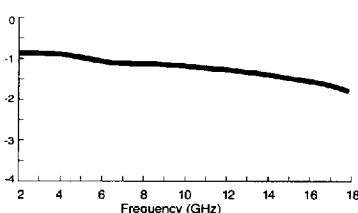
Maximum Ratings

Storage Temp. -65°C to +125°C

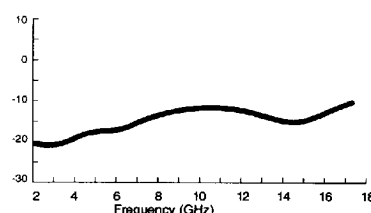
Operating Temp. -55°C to +95°C

Typical Performance Data 2954-1004

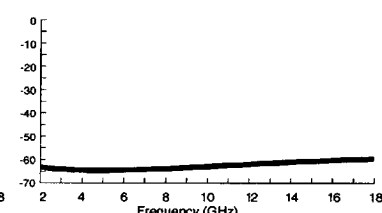
Insertion Loss (dB)



Return Loss (dB)



Isolation (dB)



Specifications Subject to Change Without Notice.

M/A-COM Inc. ■ 1011 Pawtucket Boulevard, Lowell, MA 01853 USA

■ Telephone: 800-366-2266

Typical Specifications 25°C

With Internal Bias Circuitry

Frequency Range (GHz)	Insertion Loss (dB)	VSWR	Isolation (dB)	Switching Speed (nS)	Power Handling (W)	Part Number
0.5-2.0	0.8	1.5:1	40	20	0.5	2954-1001
2.0-8.0	1.5	1.7:1	45	20	0.5	2954-1002
2.0-18.0	2.6	2.0:1	35	20	0.5	2954-1004

Without Internal Bias Circuitry

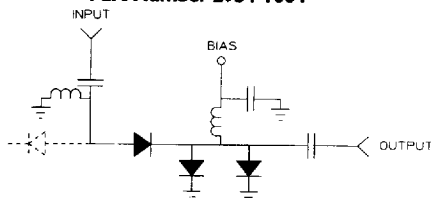
Frequency Range (GHz)	Insertion Loss (dB)	VSWR	Isolation (dB)	Switching Speed (nS)	Power Handling (W)	Part Number
0.5-2.0	0.8	1.5:1	40	20	0.5	2954-2001
2.0-8.0	1.5	1.7:1	45	20	0.5	2954-2002
6.0-18.0	2.0	2.0:1	35	20	0.5	2954-2003

Notes:

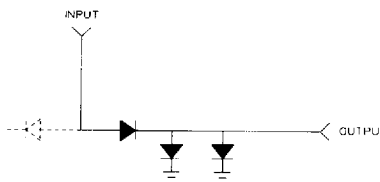
1. Bias: -30V for specified loss
+30mA for specified isolation
2. Switching speed is measured from 10%-90% and 90%-10% of the detected RF with a 2 MHz maximum switching rate.
3. Switching speed is measured with a standard M/A-COM driver.
4. Operating power is 100 mW maximum.

Typical Schematic

With Internal Bias Circuitry Part Number 2954-1004



Without Internal Bias Circuitry Part Number 2954-2003



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