



SPDT Reflective Modules With TTL Compatible Drivers

2956 Series

Features

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

Description

M/A-COM's switch modules with TTL compatible drivers have been designed to incorporate broad bandwidth (0.5-18.0 GHz) design techniques with integral hybrid driver circuitry. The results are multi-octave bandwidth devices which retain the stripline compatibility feature of a module while also incorporating a low power consumption driver capable of switching the RF circuitry in less than 50 nS. Construction techniques allow these devices to be used in today's most stringent military environments.

Screening

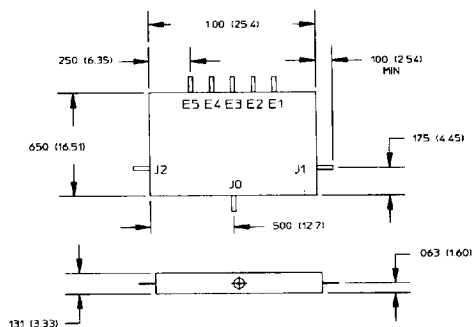
Optional screening can be performed in accordance with the following sequence:

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	

Maximum Ratings

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

Mechanical Outline (Top View)



±.002
Leads are .012 (.31) diameter (std).
±.010
May be supplied as tabs: .025 (.64) Wide, .006 (.15) Thick (opt).
Contact factory.

Terminal Assignments			
Terminal	Assignment	Terminal	Assignment
J0	RF Common Arm	E3	Ground
J1	RF Port 1	E4	+5 Volts
J2	RF Port 2	E5	TTL Logic
E1	TTL Logic	Case	Ground
E2	-12 Volts		

RF Assignment			
TTL	E5	E1	J0-J2
0	1	Loss	Isolation
1	0	Isolation	Loss

Specifications Subject to Change Without Notice.

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

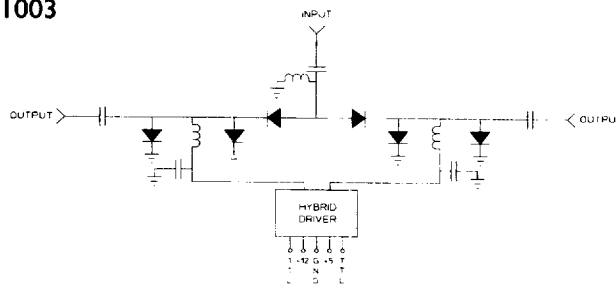
■ Telephone: 800-366-2266

Typical Specifications 25°C

Frequency Range (GHz)	Insertion Loss (dB)	VSWR	Isolation (dB)	Switching Speed (nS)	Power Handling (W)	Part Number
0.5-2.0	1.2	1.5:1	50	50	0.5	2956-1001
2.0-8.0	1.8	1.8:1	50	50	0.5	2956-1002
6.0-18.0	2.5	2.0:1	45	50	0.5	2956-1003

Notes:

1. Bias: +5V $\pm$ 5% @ 75mA maximum
-12V $\pm$ 5% @ 50mA maximum
2. Switching speed is measured from 10%-90% and 90%-10% of the detected RF with a 2 MHz maximum switching rate.
3. Operating power is 100 mW maximum.

Typical Schematic 2956-1003

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