

Features

- Low Insertion Loss: 0.65 dB @ 2.4 GHz
- Isolation: 24 dB @ 2.4 GHz
- Low Current Consumption: <10 μ A @ -3 V
- Lead-Free SOT-363 Plastic Package
- 100% Matte Tin Plating over Copper
- Halogen-Free "Green" Mold Compound
- 260°C Reflow Compatible
- RoHS* Compliant Version of the SW-438

Description

M/A-COM's MASWSS0151 is a GaAs MMIC SPDT switch in a low cost, lead-free SC70 (SOT-363) surface mount plastic package. The MASWSS0151 is ideally suited for applications that include transmit / receive switching for Bluetooth and WLAN equipment.

The MASWSS0151 can also be used in applications up to 500 mW in cellular, PCS, DCS1800, GSM, CDMA, and other analog and digital wireless communications systems.

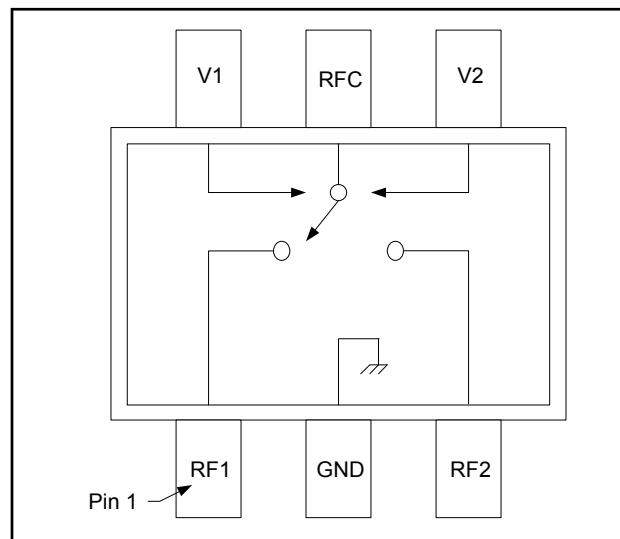
The MASWSS0151 is fabricated using a 0.5 micron gate length GaAs PHEMT process. The process features full passivation for performance and reliability.

Ordering Information ¹

Part Number	Package
MASWSS0151	Bulk Packaging
MASWSS0151TR-3000	3000 piece reel
MASWSS0151SMB	Sample Board (Includes 5 Samples)

1. Reference Application Note M513 for reel size information.

Functional Schematic



Pin Configuration

Pin No.	Function	Description
1	RF1	RF Input / Output
2	GND	RF Ground
3	RF2	RF Input / Output
4	V2	Control 2 Input
5	RFC	RF Common Input
6	V1	Control 1 Input

Absolute Maximum Ratings ^{2,3}

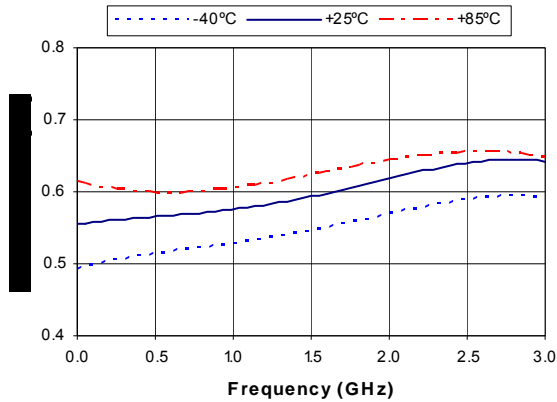
Parameter	Absolute Maximum
Input Power (1 GHz)	+32 dBm
Operating Voltage	+8 Volts
Operating Temperature	-40°C to +85°C
Storage Temperature	-65°C to +150°C

2. Exceeding any one or combination of these limits may cause permanent damage to this device.
3. M/A-COM does not recommend sustained operation near these survivability limits.

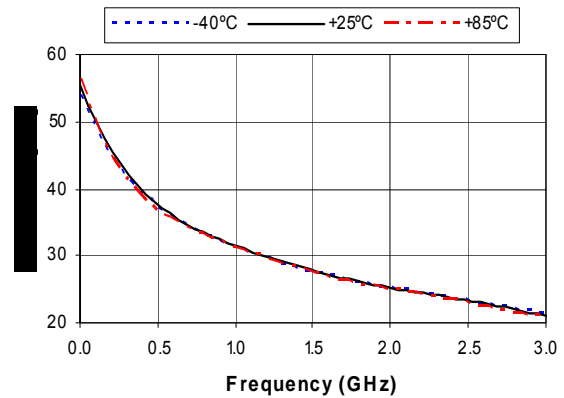
* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

Typical Performance Curves vs. Frequency over Temperature

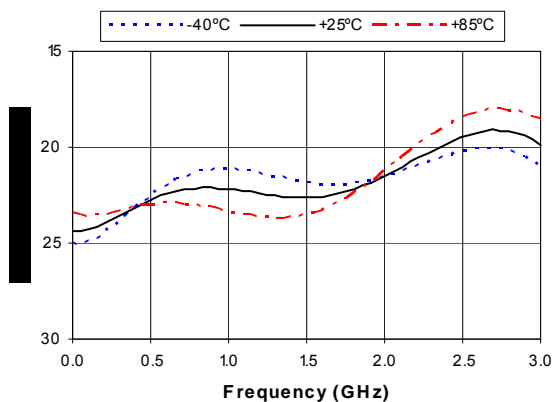
Insertion Loss



Isolation



Return Loss



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