

OS-1020

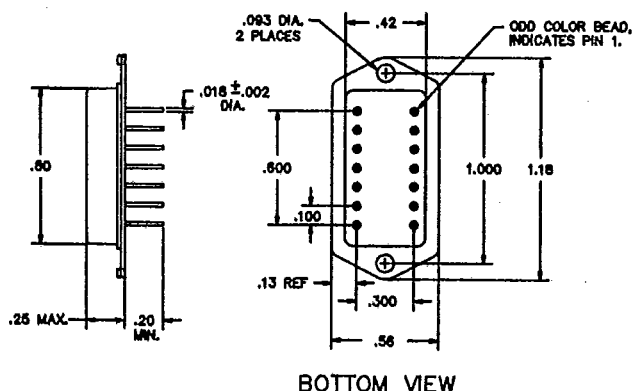
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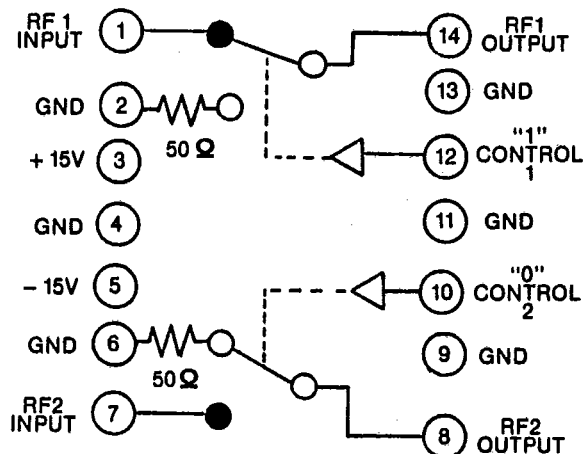
10 to 500 MHz DUAL SPST Solid State RF Switch

- 50 Ohm Termination (non-reflective)
- Low Insertion Loss
- CMOS Control
- Excellent Stability Over Temperature
- Hermetic Enclosure
- High Speed Switching

Outline Drawing



Schematic Diagram



Absolute Maximum Ratings

Ambient Operating Temperature -54°C to + 100°C
Storage Temperature -65°C to + 125°C
Maximum DC Voltage..... ±17 Volts

Electrical Specifications @ 25°C

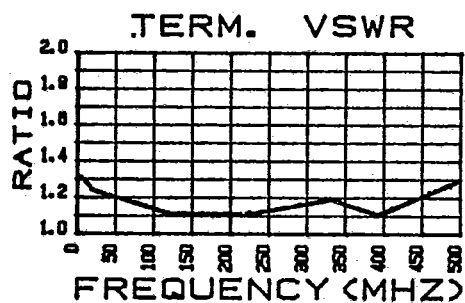
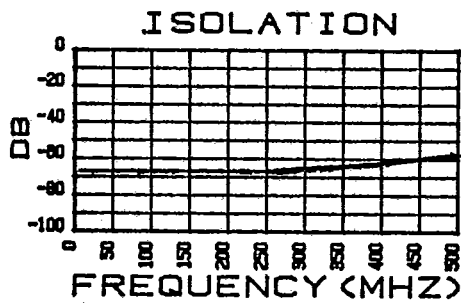
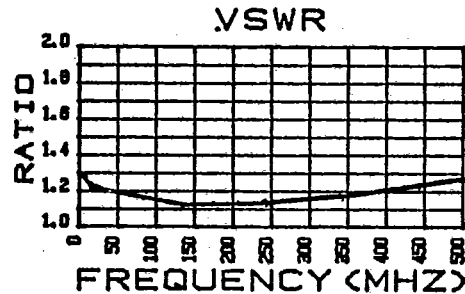
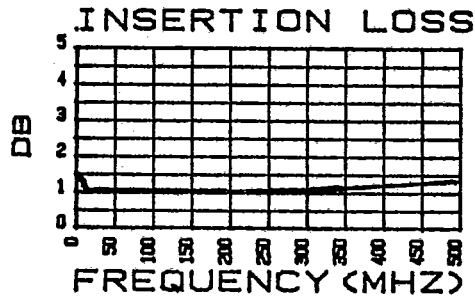
PARAMETER	TYP.	MIN.	MAX.
Frequency Range, MHz	---	10-500	---
Insertion Loss	1.1dB	---	1.5dB
Insertion Loss Flatness	.3dB	---	.4dB
Isolation	60dB	50.0dB	---
VSWR	1.25:1	---	1.3:1
Termination VSWR	1.25:1	---	1.3:1
Switching Speed	.75usec	---	1usec
RF Power-Operational	---	---	+10dBm
RF Power-Non Destruct	---	---	+30dBm
DC Power			
+15 Volts	13ma	---	25ma
-15 Volts	20ma	---	25ma

CMOS or TTL Control with logic 1 of +4V to +15V

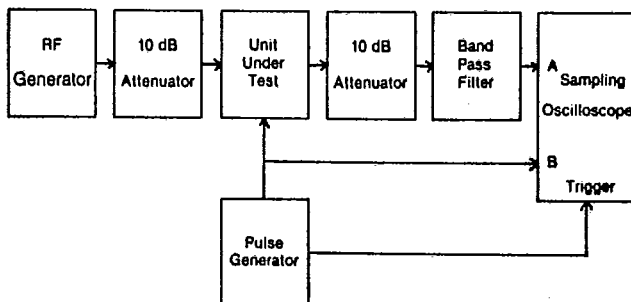
SWITCHING CONDITIONS

LOGIC "1" = ON LOGIC "0" = OFF

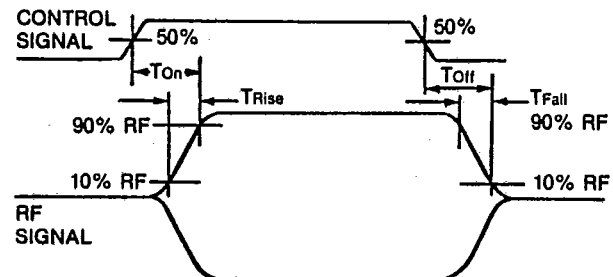
Typical Performance



Test Set-Up



Switching Parameters



T_{Rise} = Rise Time = Time for RF signal to rise from 10% to 90% of the maximum "on" level.

T_{Fall} = Fall Time = Time for RF signal to fall from 90% to 10% of the maximum "on" level.

T_{On} = On Time = Time from 50% of the control pulse to 90% of the maximum "on" level.

T_{Off} = Off Time = Time from 50% of the control pulse to 10% of the maximum "on" level.