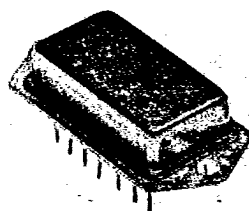


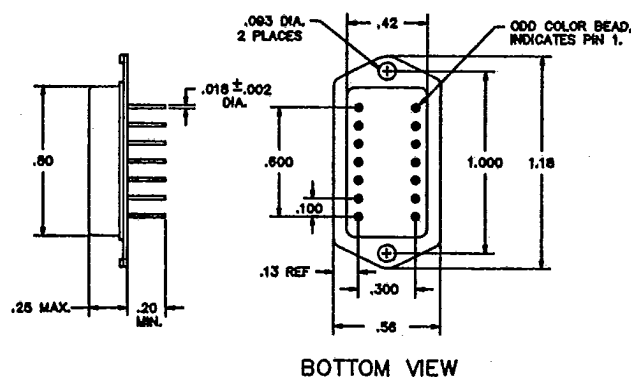
OS-1025



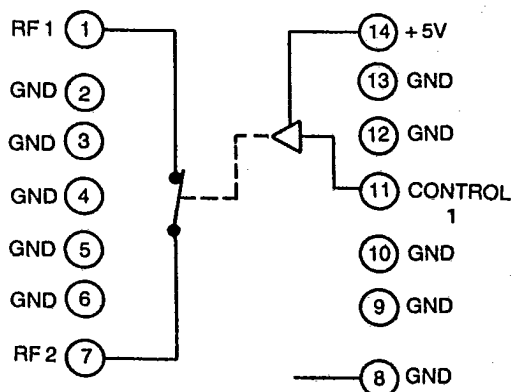
10-500 MHz SPST Solid State RF Switch

- High On/Off Ratio
- TTL 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..... + 7 Volts

Electrical Specifications @ 25°C

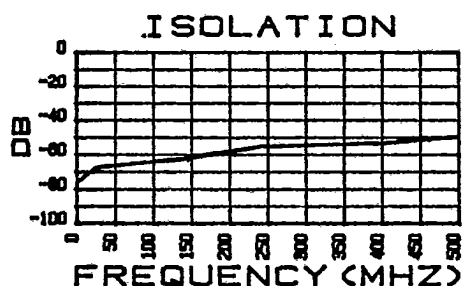
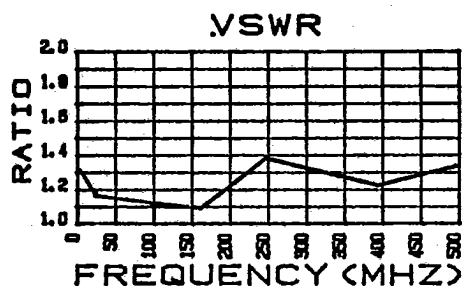
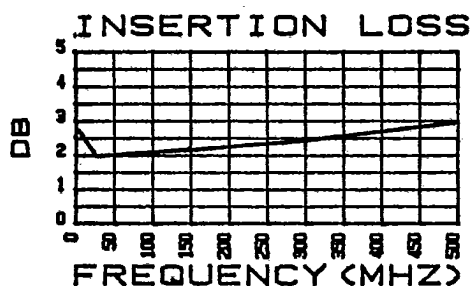
PARAMETER	TYP.	MIN.	MAX.
Frequency Range, MHz	---	10-500	---
Insertion Loss	2.5dB	---	3.5dB
Isolation			
10-200 MHz	60dB	50dB	---
200-500 MHz	50dB	45dB	---
VSWR	1.3:1	---	1.5:1
Transient	20mv	---	30mv
Switching Speed	20nsec.	---	25nsec
RF Power-Operational	---	---	+5dBm
RF Power-Non Destruct	---	---	+17dBm
DC Power +5 Volts	140ma	---	150ma

CONTROL 1 line TTL, Load Factor 2, S Series

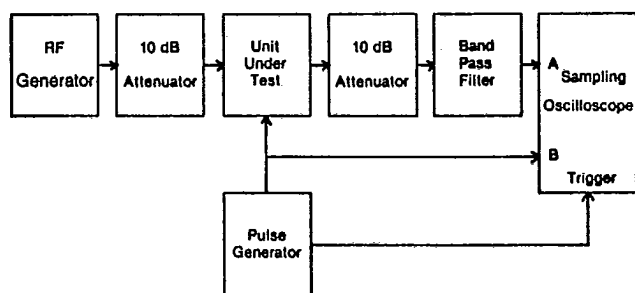
SWITCHING CONDITIONS

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

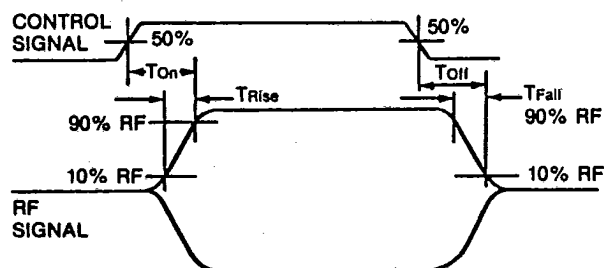
Typical Performance



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.