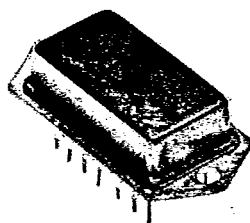


OS-1022

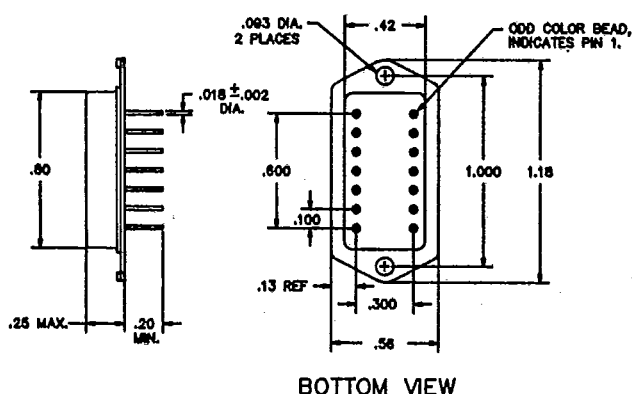
A-29-25



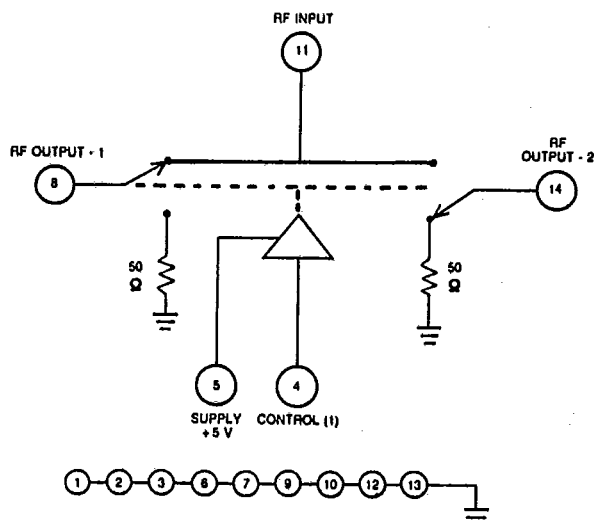
10 to 2000 MHz SPDT Solid State RF Switch

- 50 Ohm Termination (non-reflective)
- Low Insertion Loss
- 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	---	10-2000	---
Insertion Loss	2.0dB	---	3.0dB
Insertion Loss Flatness			
10-1000 MHz	0.3dB	---	0.5dB
10-2000 MHz	0.5dB	---	1.25dB
Isolation	45dB	35dB	---
VSWR	1.5:1	---	1.75:1
Termination VSWR	1.5:1	---	1.75:1
Switching Speed	25nsec	---	50nsec
RF Power-Operational	---	---	+10dBm
RF Power-Non Destruct	---	---	+20dBm
DC Power +5 Volts	50ma	---	75ma

CONTROL 1 line TTL, Load Factor 2, S Series

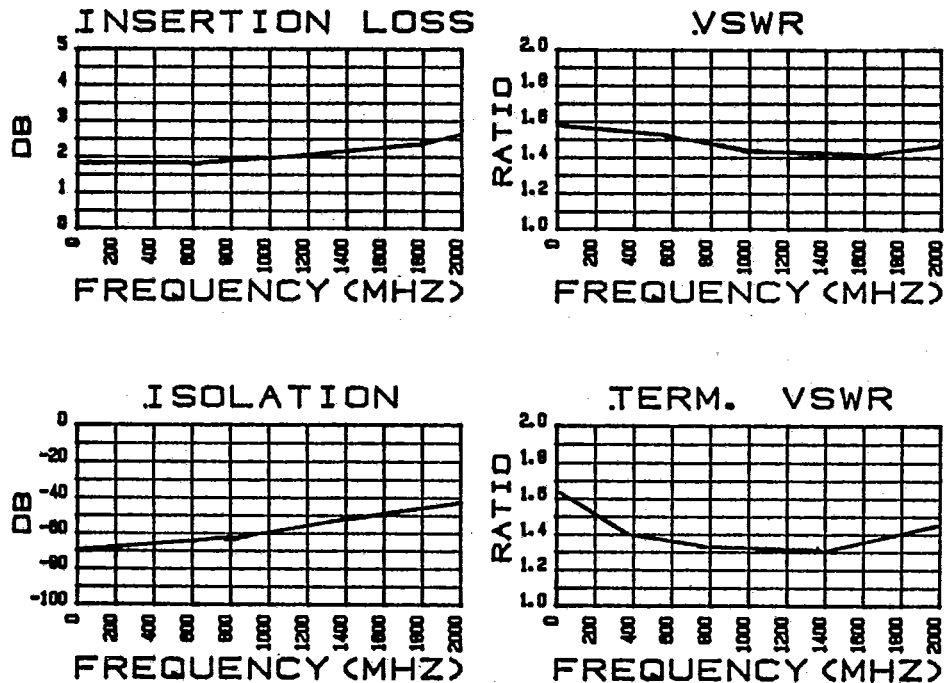
SWITCHING CONDITIONS

LOGIC "1" = RF1 ON; RF2 OFF
LOGIC "0" = RF1 OFF; RF2 ON

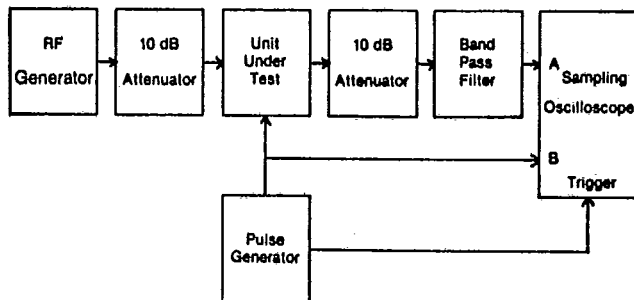
OS-1022

A-29-25

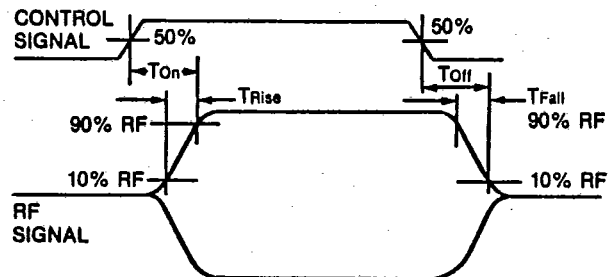
Typical Performance



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.