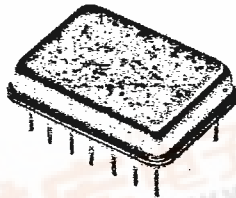


OS-1011

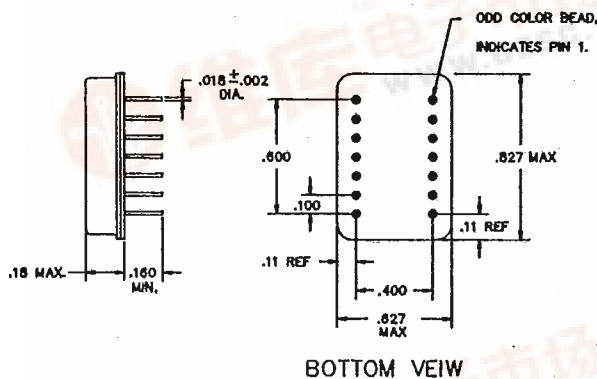
A-29-25



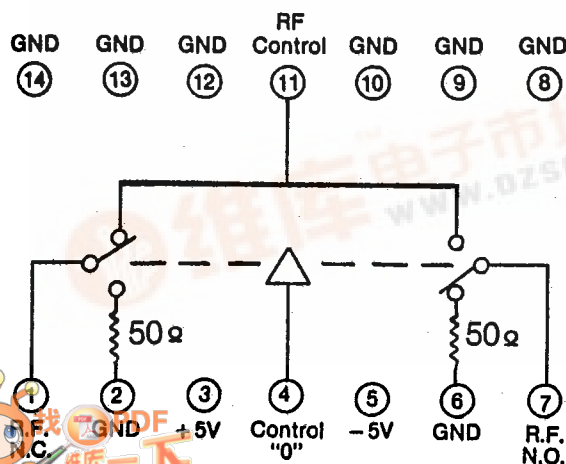
150 to 500 MHz Solid State SPDT RF Switch

- Internal 50 Ohm Termination (non-reflective)
- Low Insertion Loss
- Hermetic Enclosure
- High Speed Switching
- TTL Control

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

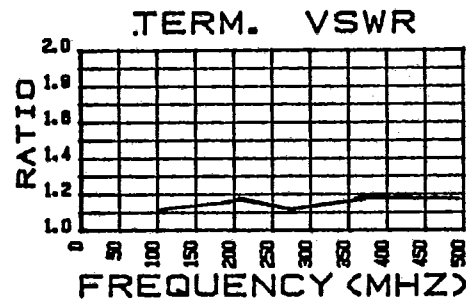
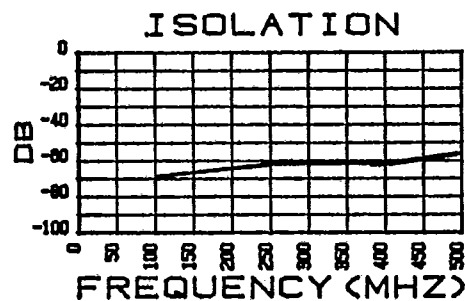
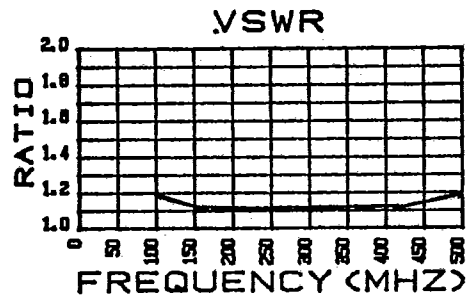
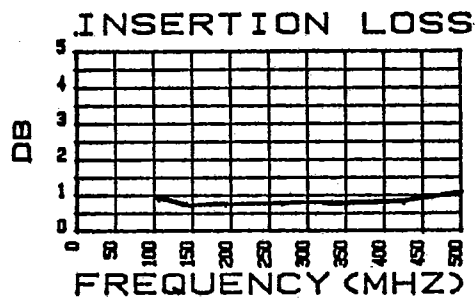
PARAMETER	TYP.	MIN.	MAX.
Frequency Range, MHz	---	150-500	---
Insertion Loss	1.1dB	---	1.2dB
Insertion Loss Flatness	.3dB	---	.6dB
Isolation			
150-220 MHz	60dB	55dB	---
220-500 MHz	55dB	50dB	---
VSWR	1.2:1	---	1.3:1
Termination VSWR	1.2:1	---	1.3:1
Switching Speed	.5usec	---	1usec
RF Power-Operational	---	---	+10dBm
RF Power-Non-Destruct	---	---	+30dBm
DC Power			
+5 Volts	22ma	---	25ma
-5 Volts	14ma	---	25ma

CONTROL 1 line TTL, Load Factor 4, LS Series

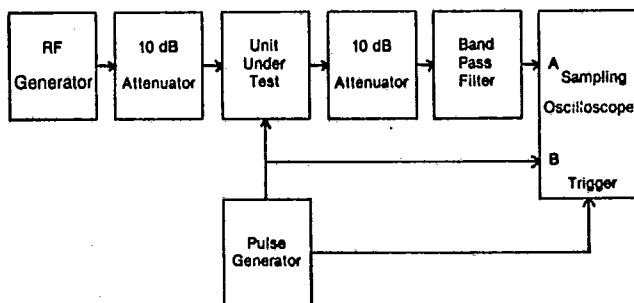
SWITCHING CONDITIONS

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

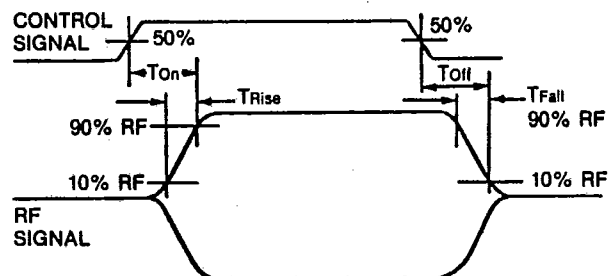
Typical Performance



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.