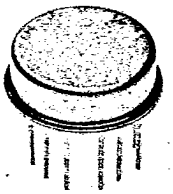
OS-11

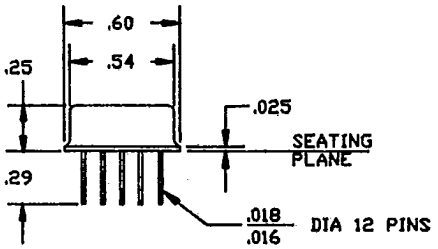
T-51-11

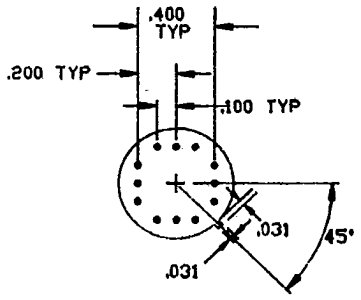


10 to 500 MHz SPST Reflective Switch

- Hermetic Enclosure
- High Speed Switching
- TTL Control
- High On/Off Ratio

Outline Drawing





(All unused P/NS Grounded)

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

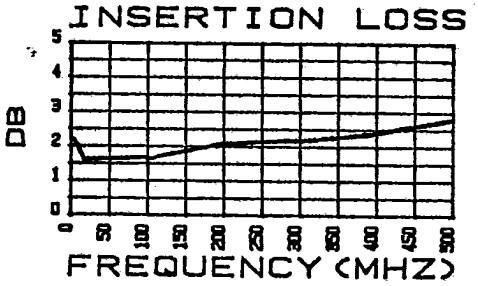
PARAMETER	TYP.	MIN.	MAX.
Frequency Range, MHz	----	10-500	----
Insertion Loss			
10-100 MHz	1.7dB	----	2.7dB
100-300 MHz	2.1dB	----	3.0dB
300-500 MHz	2.8dB	----	4.5dB
Isolation			
10-100 MHz	65.0dB	52.0dB	----
100-300 MHz	54.0dB	48.0dB	----
300-500 MHz	45.0dB	36.0dB	----
VSWR	1.8:1	----	2.5:1
Switching Speed	15nsec	----	20nsec
RF Power-Operational	----	----	+10dBm
RF Power-Non-Destruct	----	----	+30dBm
DC Power +5 Volts	45ma	60ma	

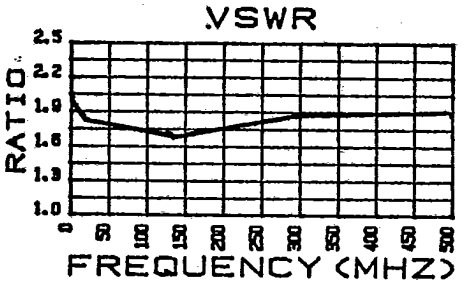
CONTROL2 Line TTL, Load Factor2, S Series

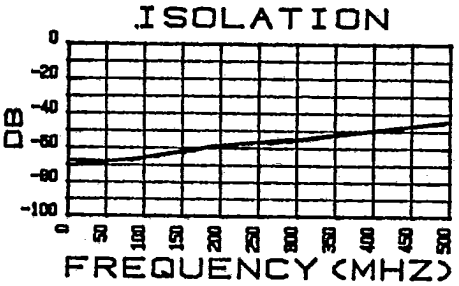
SWITCHING CONDITIONS

Input Plus	On State	Off States
A	1	010
B	1	001

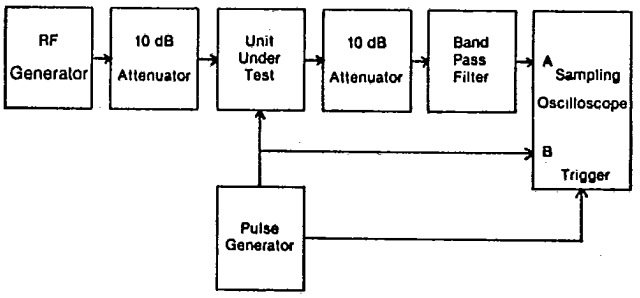
Typical Performance



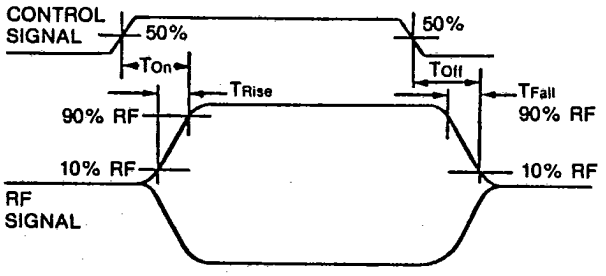




Test Set-Up



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.