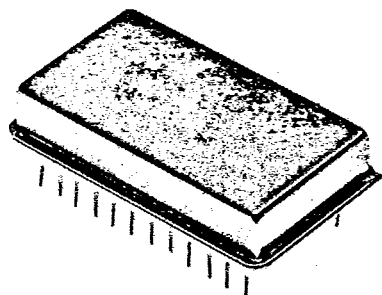


OS-1013

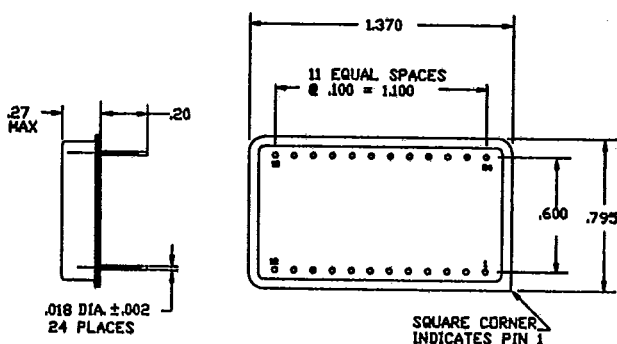
A-29-25



20 to 500 MHz SP3T RF Switch

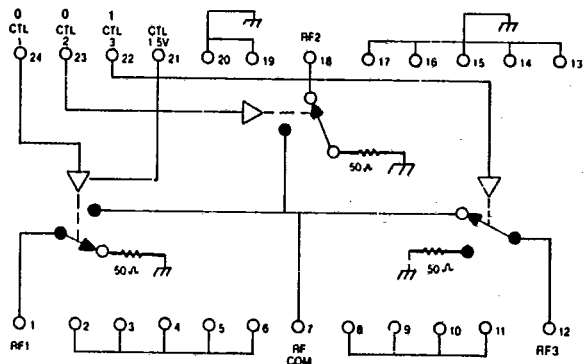
- Internal 50 Ohm Termination (non-reflective)
- Low Insertion Loss
- CMOS Control
- Excellent Stability Over Temperature
- Hermetic Enclosure

Outline Drawing



BOTTOM VIEW

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

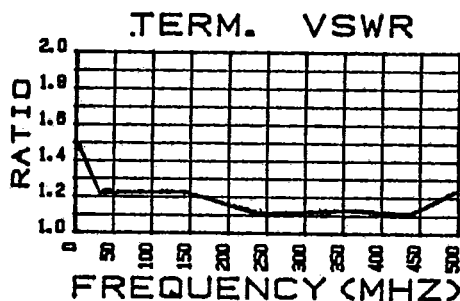
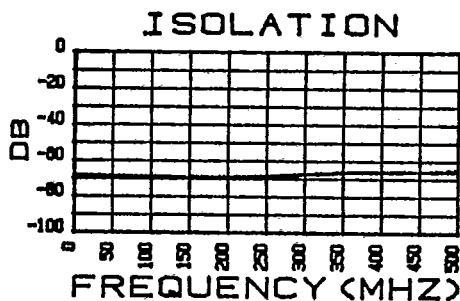
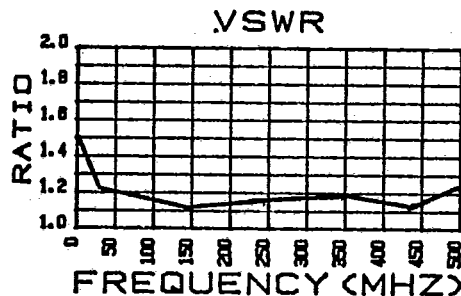
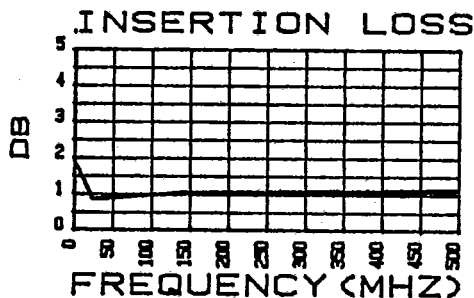
PARAMETER	TYP.	MIN.	MAX.
Frequency Range, MHz	---	20-500	---
Insertion Loss	1.2dB	---	1.4dB
Isolation	63dB	60dB	---
VSWR	1.2:1	---	1.3:1
Termination VSWR	1.2:1	---	1.3:1
Switching Speed	1.5usec	---	5usec
RF Power-Operational	---	---	+13dBm
RF Power-Non Destruct	---	---	+30dBm
DC Power +15 Volts	35ma	---	40ma

Control Logic is CMOS or open TTL Control with external pull up to +15 Volts.

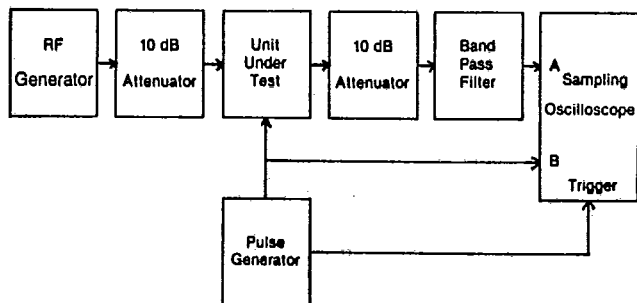
SWITCHING CONDITIONS

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

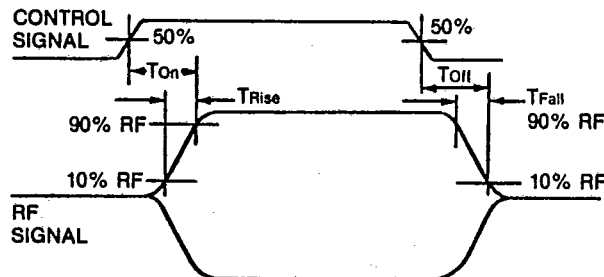
Typical Performance



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.