SWDT-1C

PIN SPDT Switches



Features

- Frequency range:20～2000MHz
- High isolation
- Internal TTL driver
- Thin film construction,Absorptive design
- Operating temperature range:-55℃～+85℃

Specifications(measured in a 50Ω system V_{CC}=±5V, -55℃≤T_A≤+85℃)

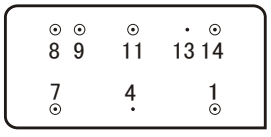
Parameter	Symbol	Unit	Guaranteed		Typical
Insertion loss	IL	dB	(20～200)MHz	0.8	0.6
			(0.2～1.0)MHz	1.6	1.3
			(1.0～2.0)MHz	2.5	2.3
Isolation	Iso	dB	(20～200)MHz	65.0	70.0
			(0.2～1.0)MHz	60.0	65.0
			(1.0～2.0)MHz	50.0	55.0
Frequency range	f_L～f_H	MHz	(20～2000)MHz		
VSWR of Input/Output	VSWR	—	2.0:1		1.5:1
VSWR of Isolation	$VSWR_O$	—	2.0:1		1.3:1
T_{on} T_{off}	—	us	0.4 △		0.3

"△" Measured at T_C=24±1℃

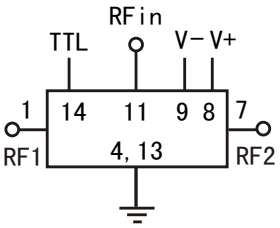
Absolute Maximum Ratings

1 dB compression Input power:+18dBm

Storage Temp:+125℃



DIP-14C

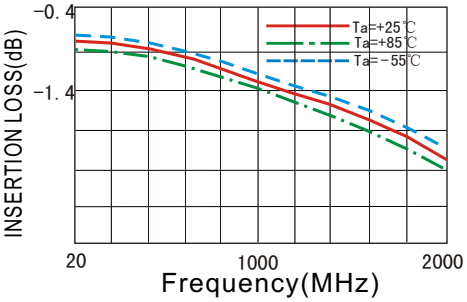


Application Notes

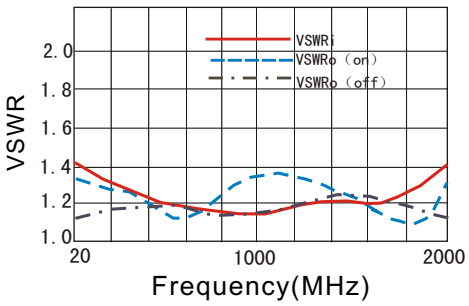
1. ESD observe handling precantions. Overtime soldering may cause Permanent damage
2. The high level of TTL control signal should be higher than 3.5V and 2～3mA to provide
3. When higher operating frequency and isolation and required, isolation measures should be used between input and output ports to abtain the guaranteed performance
4. The decoupling capacitors(>0.1uF and 10000pF) are required to filter the iterference on the power port

Typical Performance

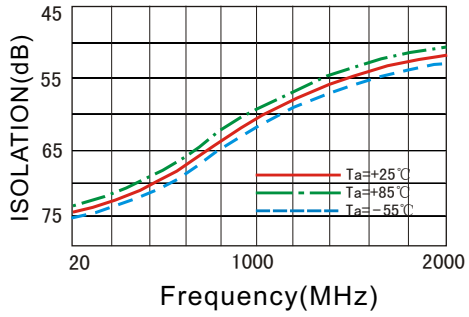
Insertion Loss VS. Frequency



VSWR VS. Frequency



Isolation vs. Frequency



Switching Time

