

Features

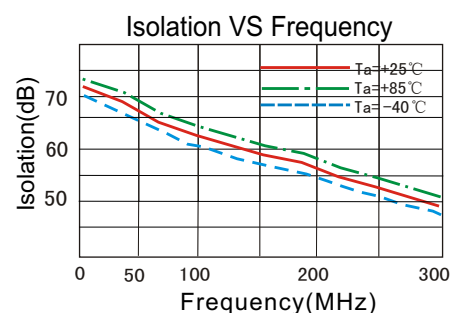
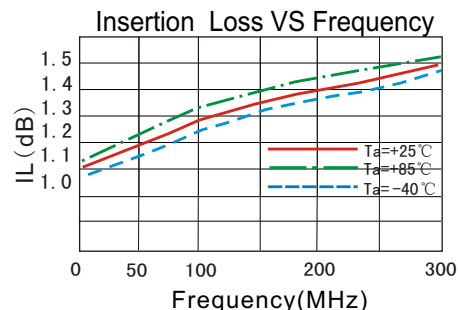
- TTL/COMS driver
- 1 μ m GaAs IC process
- Fast switching speed, 4 switches
- Standard package: DIP-14
- Operating temperature range: -55°C ~ +85°C



Specifications (measured in a 50 Ω system $T_A=25^\circ\text{C}$)

Parameter	Symbol	Unit	Guaranteed			Notes
			Min	Typical	Max	
Frequency range	$f_L \sim f_H$	MHz	DC	DC~200	200	—
On/Off Time	T_{on}	nS	—	6	15	—
Rise time	t_r	nS	—	3	5	—
Isolation	Iso	dB	60	65	—	$f=60\text{MHz}$
Insertion loss	IL	dB	—	1.2	1.5	$f=60\text{MHz}$
Supply current	I_{ee}	mA	—	10	—	$V_{ee}=-5\text{V}$

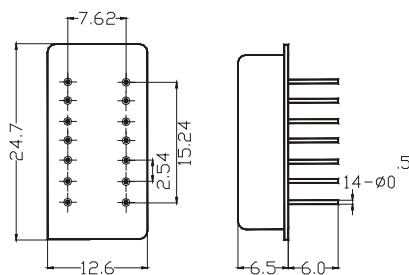
Typical Performance



Absolute Maximum Ratings

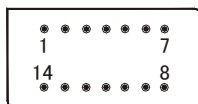
Negative Voltage: -7V
Storage Temp: +125°C

Outline Drawing



DIP-14A

PIN Connections

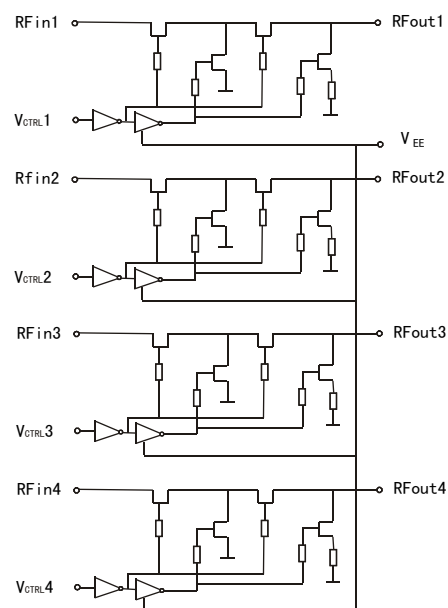


- | | |
|-------------|----------------|
| 1. K1 input | 8. K4 output |
| 2. K1 vctrl | 9. GND |
| 3. K2 input | 10. K3 output |
| 4. K3 vctrl | 11. -5V |
| 5. K3 input | 12. K2 output. |
| 6. K4 vctrl | 13. K2 Vctrl |
| 7. K4 input | 14. K1 output |

Truth Table

Control Input	OUT
High	OFF
Low	ON

Functional Schematic



Application Notes

1. ESD sensitive device observe handling precaution
2. Precaution should be taken to avoid the video transients during switching period
3. The device should be properly grounded to insure the isolation performance
4. Connected 4 input ports together can be functioned as a multi throw switches Connected 4 input as outputs can be functioned as a multi throw switches