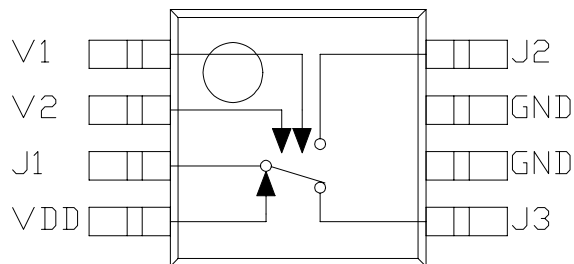


SPDT 4.5-6.0 GHz T/R Switch ITTS505AJ

ADVANCED INFORMATION

FEATURES

- MSOP-8 package
- Positive Control
- Self-Aligned MSAG®-Switch MESFET Process



Description

The ITTS505AJ is a medium power 4.5 - 6.0 GHz SPDT switch in a very small plastic MSOP package for commercial applications. The switch operates +3 and +5 volts.

Maximum Ratings (T_A = 25 °C unless otherwise noted)

Rating	Symbol	Value	Unit
RF input power	J _{1,2,3}	10W	
Supply Voltage	V _{DD}	8V	
Control Voltage	V _{1,2}	8V	
Junction Temperature	T _J	+150	°C
Storage Temperature	T _{STG}	-40 to +150	°C

ELECTRICAL CHARACTERISTICS V_{DD}= +5V T_A=25 °C

Parameter	Test Conditions	Min	Typ (4.5 GHz)	Max	Unit
Insertion Loss	4.5 - 6.0 GHz		1.1	1.8	dB
Isolation	4.5 - 6.0 GHz	15	30		dB
Return Loss	4.5 - 6.0 GHz	9	11		dB
T _{RISE} , T _{FALL}	10% to 90% RF, 90% to 10% RF			10	nS
T _{ON} , T _{OFF}	50% Control to 90% RF, 50 % Control to 10% RF			25	nS
1dB Compression Point	0/3V control	27	28		dBm
	0/5V control	29	30		dBm
Third Order Intercept	0/5V control	40	40		dBm

