

PIN Switch SPDT: SW760-2-1

Features

- Wide bandwidth 0.5 to 6GHz
- Very high isolation, 65dB@1GHz
- Very fast Switching, 40ns
- Very low current, 3 to 5V, 100uA

Applications

- High speed testers
- Automated switching networks
- Wireless infrastructure
- Military

ELECTRICAL SPECIFICATIONS @ 25°C, 50 Ω System .

Parameter	Condition	Min.	Typ.	Max.	Units
Operating Frequency		0.5		6	GHz
Insertion Loss	0.5-1GHz		1.0	1.3	dB
	1-2GHz		1.0	1.1	
	2-4GHz		1.1	1.3	
	4-6GHz		1.7	1.9	
Isolation between common port with RF1/RF2	0.5 to 2GHz	55	65		dB
	2 to 4GHz	48	57		
	4 to 6GHz	38	45		
Isolation between RF1 and RF2 port	0.5 to 2GHz	50	60		dB
	2 to 4GHz	43	50		
	4 to 6GHz	35	45		
Return Loss (ON State)	0.5 to 2GHz		20		dB
	2 to 4GHz		17		
	4 to 6GHz		13		
Return Loss (RF1 /RF2 Off State)	0.5 to 2GHz		10		dB
	2 to 4GHz		13		
	4 to 6GHz		12		
Input IP3	+3V 0.5 to 2GHz		45		dBm
	2 to 6GHz		40		
	+5V 0.5 to 2GHz		47		
	2 to 6GHz		44		
Input 1 dB Compression	+3V 0.5 to 2GHz		24		dBm
	2 to 6GHz		24		
	+5V 0.5 to 2GHz		26		
	2 to 6GHz		26		
VDD, Supply Voltage		3		5	V
Supply Current	VDD=5V		100		uA
Control Voltage Low		0		0.3VDD	V
Control Voltage High		0.7VDD		VDD	V
Control Current			5		uA
Switching Specification					
Rise/Fall Time (10 to 90% or 90 to 10% RF)	VDD=5V		40		nSec
Switching Time (50% CTRL to 90 /10% RF)	VDD=5V		40		nSec
Vedio feed through (Control 0 to 5V, 1MHz)	VDD=5V		30		mVp-p
Operating temperature		-40		+95	°C
ESD HBM Class 1A		250		500	V