



Absorptive 0.05-50GHz Coaxial SPST Switch

Features

- Wide Band Operation 0.05-50GHz
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Temperature Range -45°C~+85°C
- Customization available upon request



Electrical Specifications, TA = +25 ° C, With Vdd = +5V, Vss = -5V & VCTL = 0/ +5V

Description	PN: RFSPSTA5M50G						
	SPST Absorptive Switch						
	Low Power Cold Switching						
Parameters	Min	Type	Max	Min	Type	Max	Units
Frequency Range	0.05	10	18	20	35	50	GHz
Insertion Loss	1	2	3	4	5	6	dB
Insertion Loss Temperature Coefficient		0.003			0.003		dB/°C
Insertion Loss Over Temp (-45°C~+85°C)		0.10	0.15		0.20	0.30	±dB
Isolation	70	80	70	70	70	60	dB
Input VSWR(ON State)	2	2	2	2	2.5	2.5	
Input VSWR(OFF State)	5			5			
Output VSWR (ON State)	2	2	2	2	2.5	2.5	
Output VSWR (OFF State)	3.5	3.5	2	2	2	2.5	
Power Dissipation (CW)		0.2			0.2		W
IM3		-33			-33		dBc
Switching Speed			100			100	ns
Input Max			23			23	dBm
Weight	50						g
Impedance	50						Ohms
Biassing (+5V/-5V)	50/50						mA
Input /Output Connector	2.4mm-Female (Standard)						
Finishing	Gold plating						
Material	copper						
Control Logic TTL	TTL			Status			
	0			OFF			
	1			ON			

Absorptive Coaxial Single Pole Single Throw Switch 0.05-50GHz



RF-LAMBDA

The power beyond expectations

RFSPSTA5M50G

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Absolute Maximum Ratings	
Biassing	+5/-5V
TTL Control Voltage	+5V/0V
Input RF power	+23dBm
Storage Temperature (C°)	-50 ~ +125

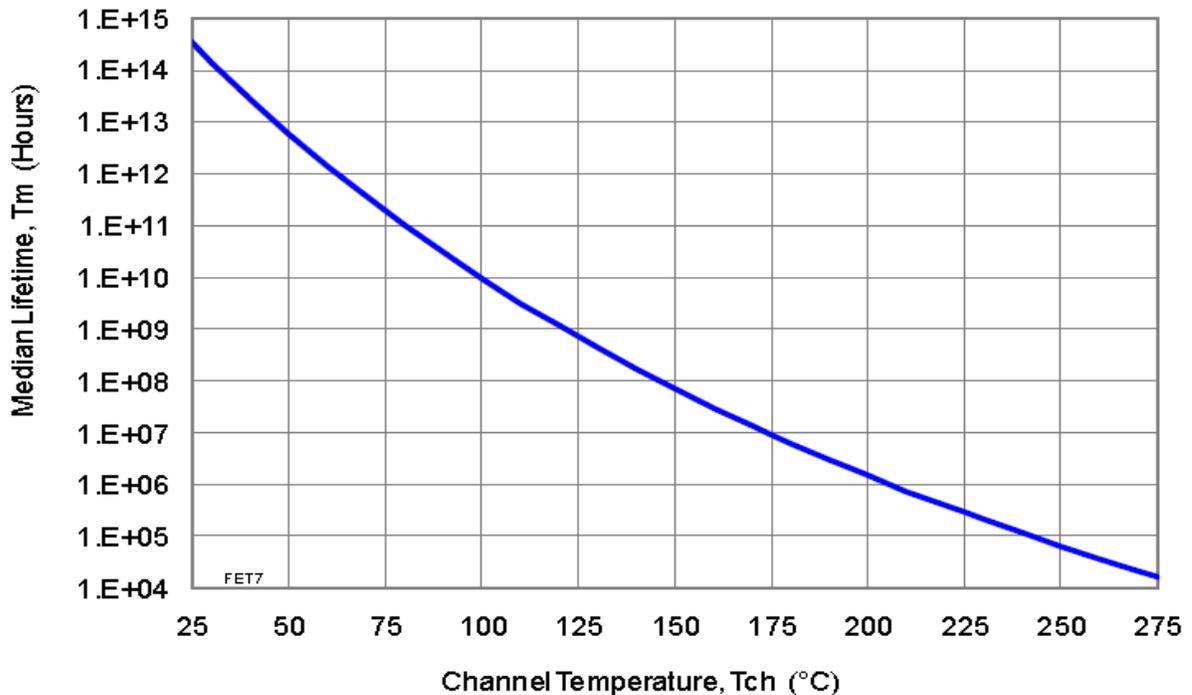
Biassing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

Environment specifications	
Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft (Controlled environment)
Vibration	35g rms (15 degree 2KHz)
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc

Ordering Information		
Part No	ECCN	Description
RFSPSTA5M50G	EAR99	SPST 0.05-50GHz PIN Diode Switch



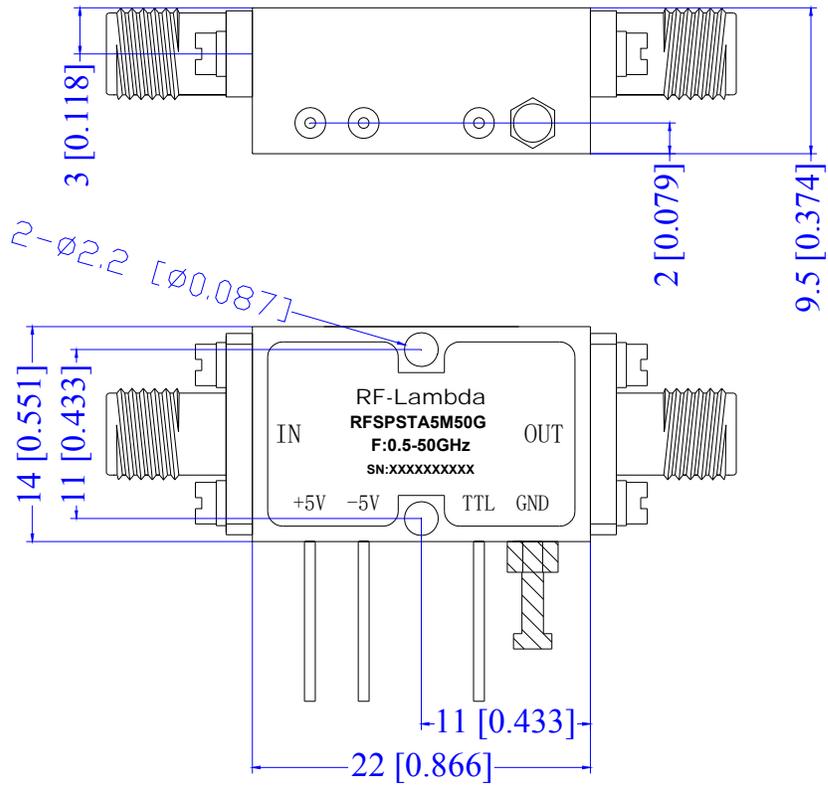
Median Lifetime (Tm) vs. Channel Temperature (Tch)





Outline Drawing:

All Dimensions in mm (inches)



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