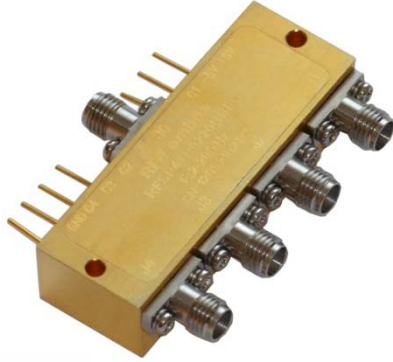




## Absorptive 0.5-4GHz Coaxial SP4T Switch



### Features

- Wide Band Operation 0.5-4GHz
- High Power Handle Capability up to 5W upon request.
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Temperature Range -45°C~+85°C
- Customization available upon request

Specification	Absorptive type				
	PN: RFSP4TA0004G				
	Low	Med	High		
Frequency Range(GHz)	0.5	2.25	4		
Insertion Loss(dB)	0.5dB	0.8dB	1.0dB		
VSWR	1.5	1.4	1.5		
Isolation(dB)	75	75	70		
Switching Speed(ns)	100	100	100		
P1dB Power (dBm)		24			
Absolutely max. Power (W)			1		
Weight (g)	100				
IIP3 (Input IP3) dBm	42.92				
Impedance(Ohms)	50Ω				
Power Supply (V)	+/-5 V DC				
Current(mA)	160mA (+5V) 50mA (-5V)				
Input Connector	SMA-Female				
Output Connector	SMA-Female				
Finishing	Gold Plating				
Material	Brass				
Seal	Hermetically Sealed				
Control (TTL Driver Included)	TTL Control				
	C4	C3	C2	C1	Status
	1	1	1	0	Jo-J1
	1	1	0	1	Jo-J2
	1	0	1	1	Jo-J3
0	1	1	1	Jo-J4	



# RF-LAMBDA

The power beyond expectations

RFSP4TA0004G

Absorptive Coaxial Single Pole Four Throw Switch 0.5-4GHz

Absolute Maximum Ratings	
Biassing	+/-5 V
TTL Control Voltage	+5V/0V
Input RF power	+30dBm
Storage Temperature (C°)	-50 ~ +125

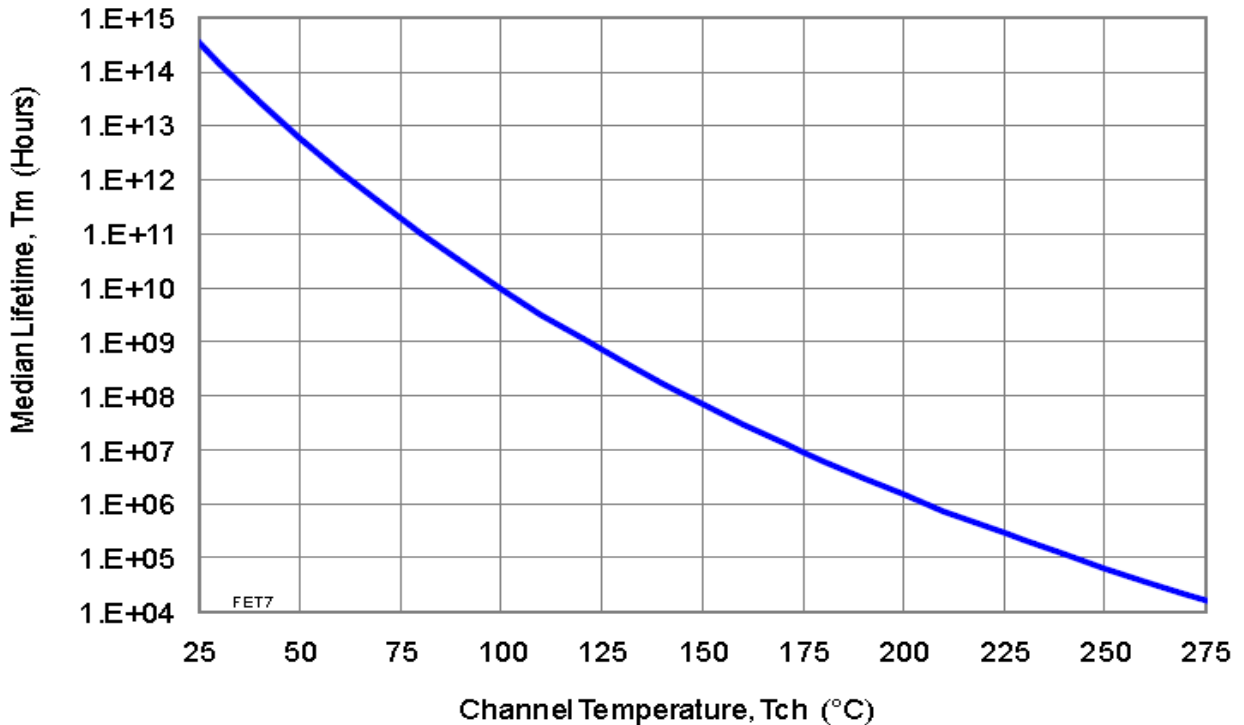
Biassing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

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
RFSP4TA0004G	EAR99	SP4T 0.5-4GHz PIN Diode Switch



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





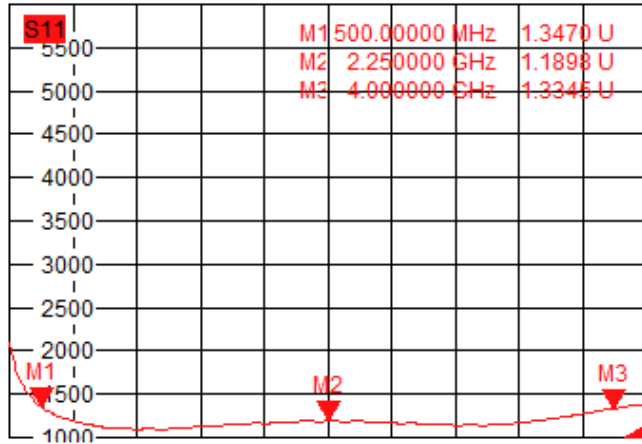
# RF-LAMBDA

The power beyond expectations

RFSP4TA0004G

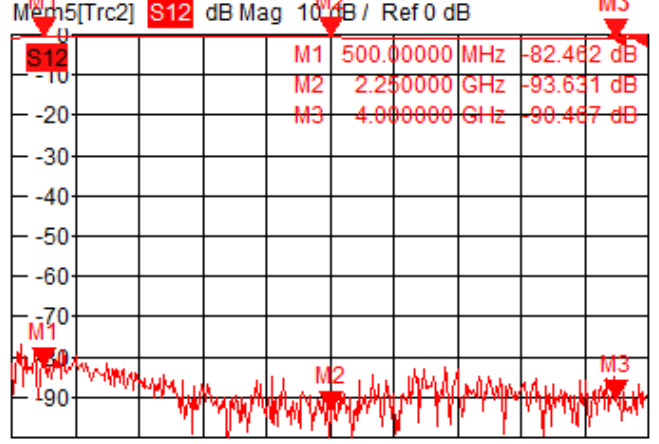
Absorptive Coaxial Single Pole Four Throw Switch 0.5-4GHz

Trc1 **S11** SWR 500 mU/ Ref 1 U Cal 1



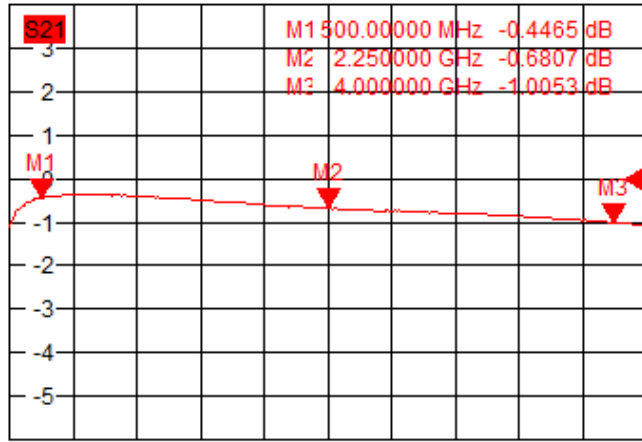
Ch1 Base Freq Start 300 MHz 0 dBm Stop 4.2 GHz

Trc2 **S12** dB Mag 10 dB / Ref 0 dB Cal 2



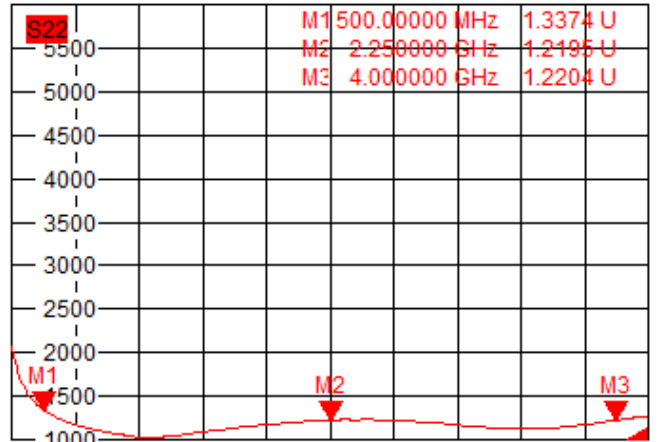
Ch1 Base Freq Start 300 MHz 0 dBm Stop 4.2 GHz

Trc3 **S21** dB Mag 1 dB / Ref 0 dB Cal 3



Ch1 Base Freq Start 300 MHz 0 dBm Stop 4.2 GHz

Trc4 **S22** SWR 500 mU/ Ref 1 U Cal 4



Ch1 Base Freq Start 300 MHz 0 dBm Stop 4.2 GHz

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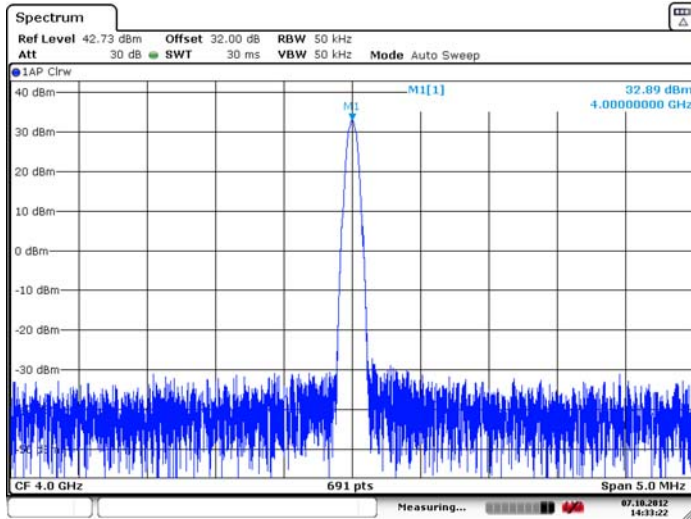


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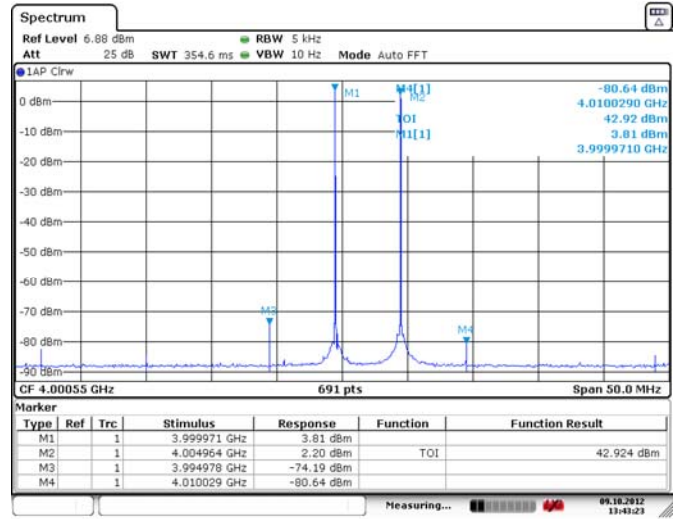
The power beyond expectations

RFSP4TA0004G

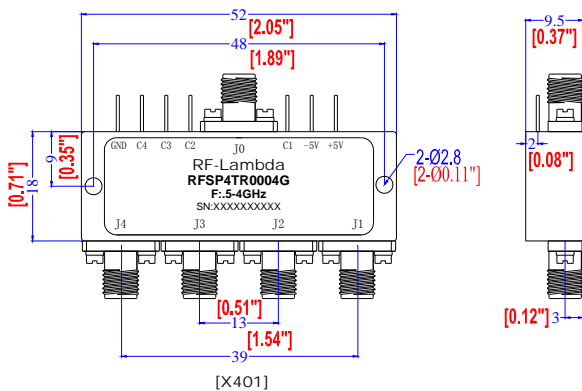
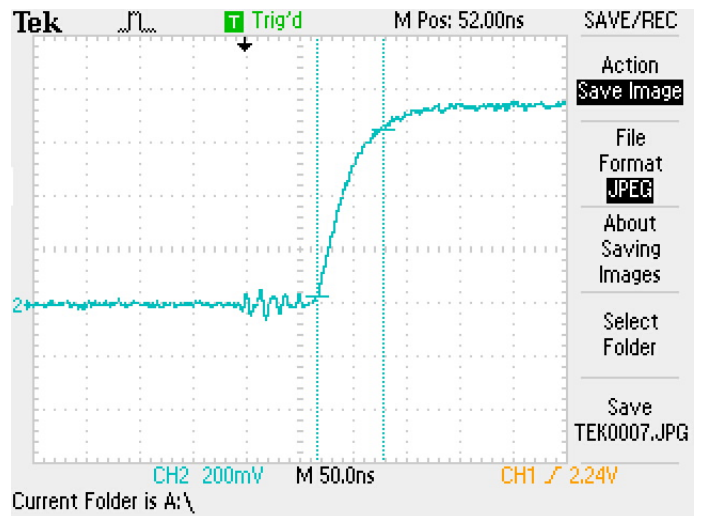
Absorptive Coaxial Single Pole Four Throw Switch 0.5-4GHz



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Date: 9.OCT.2012 13:43:23



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