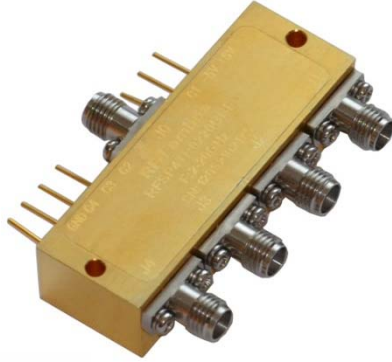




Reflective 0.5-4GHz Coaxial SP4T Switch



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	Reflective type				
	PN: RFSP4TR0004G				
	Low		Med	High	
Frequency Range(GHz)	0.5		2.25	4	
Insertion Loss(dB)	0.5dB typ. @0.5GHz		0.8dB typ. @2.25GHz	1.0dB typ. @4GHz	
VSWR	1.5		1.4	1.5	
Isolation(dB)	75		75	70	
Switching Speed(ns)	100		100	100	
P1dB Power (dBm)			24		
max. Power (W)			1W as shown	50W upon request	
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



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

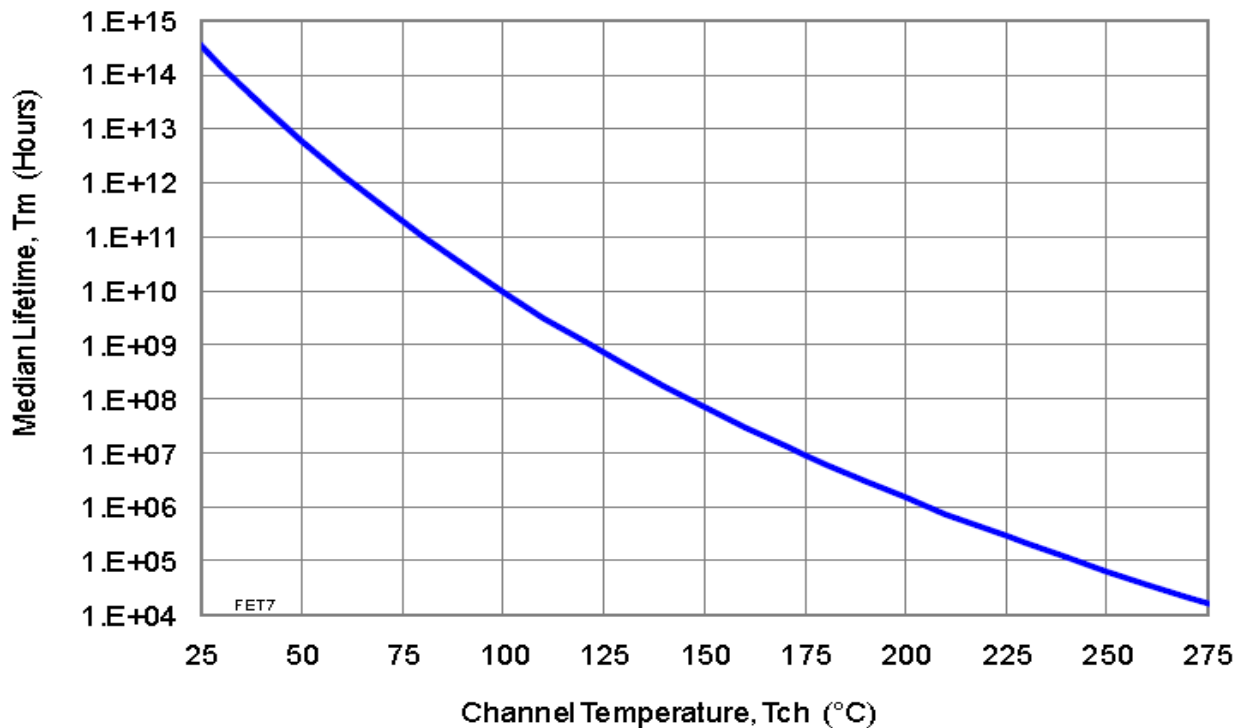
Biasing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

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
RFSP4TR0004G	EAR99	SP4T 0.5-4GHz PIN Diode Switch



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





RF-LAMBDA

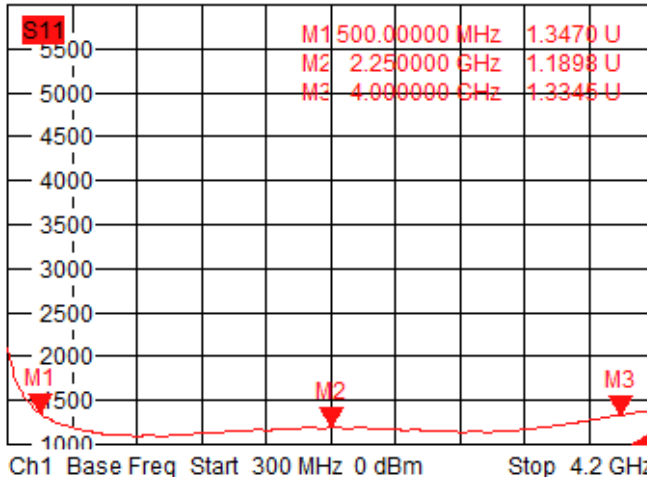
The power beyond expectations

RFSP4TR0004G

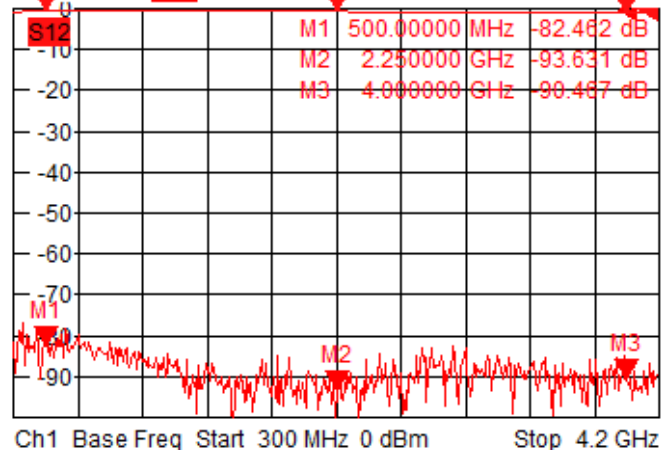


Reflective Coaxial Single Pole Four Throw Switch 0.5-4GHz

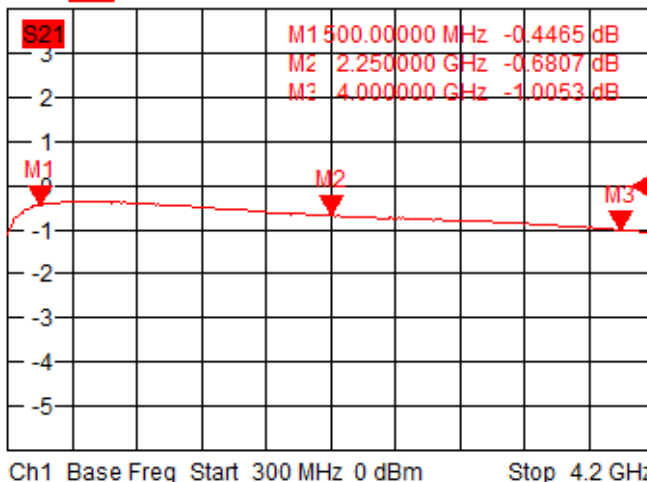
Trc1 S11 SWR 500 mU/ Ref 1 U Cal



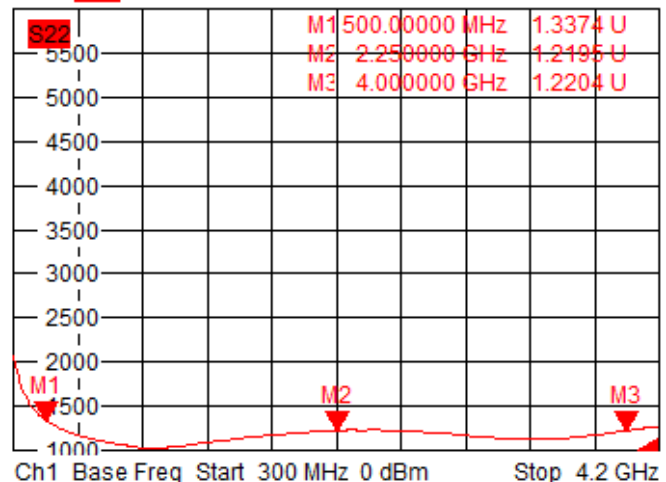
Trc2 S12 dB Mag 10 dB / Ref 0 dB Cal
Mem5[Trc2] S12 dB Mag 10 dB / Ref 0 dB



Trc3 S21 dB Mag 1 dB / Ref 0 dB Cal



Trc4 S22 SWR 500 mU/ Ref 1 U Cal

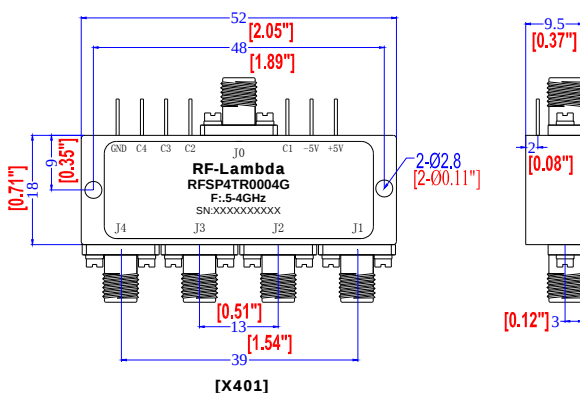


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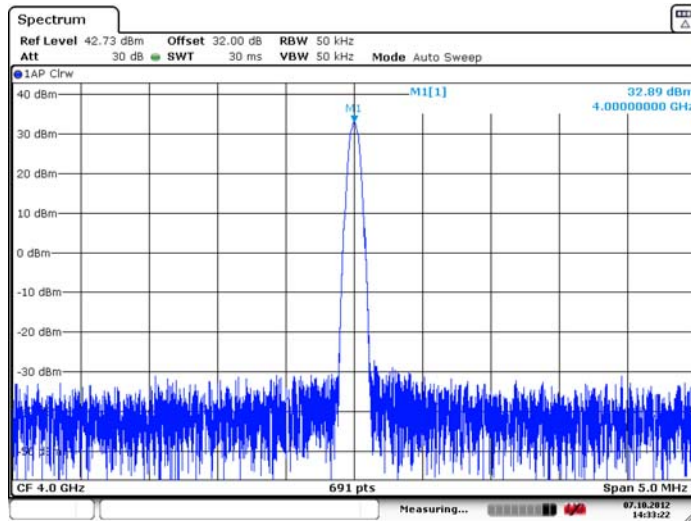




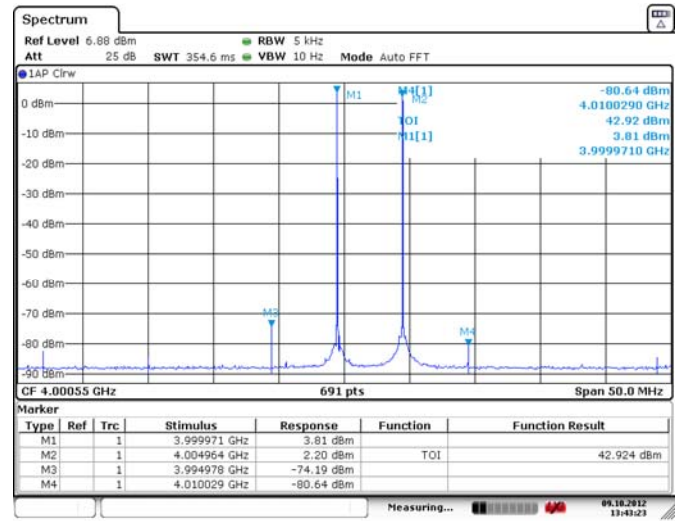
RF-LAMBDA

The power beyond expectations

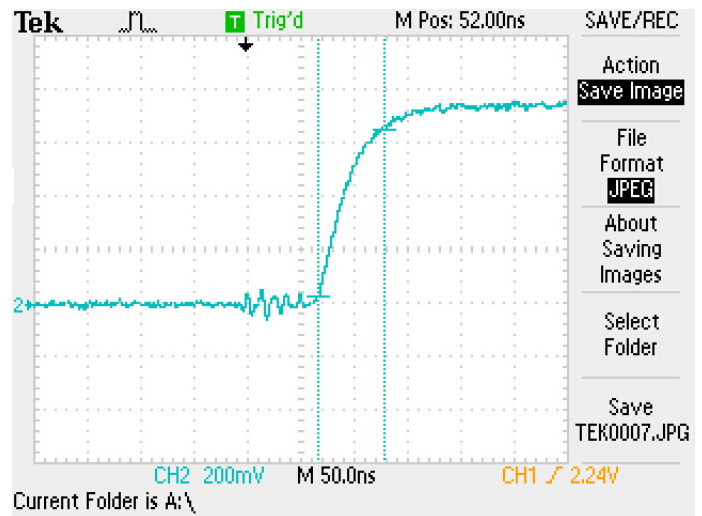
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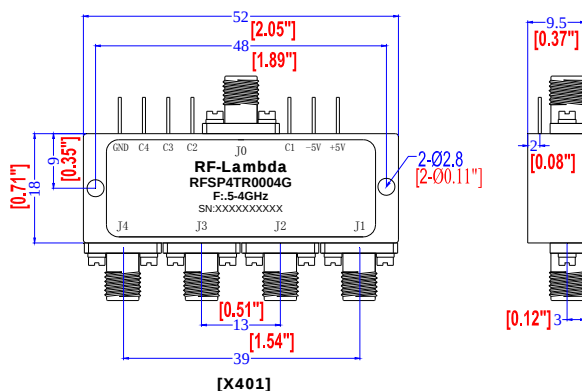
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Date: 9.OCT.2012 13:43:23



Reflective Coaxial Single Pole Four Throw Switch 0.5-4GHz



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