

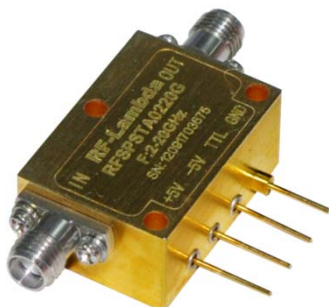


RF-LAMBDA

The power beyond expectations

RFSPSTR0204G

Reflective 2-4.0GHz Coaxial SPST Switch



Features

- Wide Band Operation 2.0-4.0GHz
- High Power Handle Capability up to 50W upon request.
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Temperature Range -40°C~+85°C
- Customization available upon request

Specification	Reflective type		
	PN: RFSPSTR0204G		
	Low	Med	High
Frequency Range(GHz)	2	3	4
Insertion Loss(dB)	0.5dB typ. @2GHz	0.6dB typ. @3GHz	1.2dB typ. @4GHz
VSWR	1.2	1.2	1.5
Isolation(dB)	85	85	80
Switching Speed(ns)	50	100	150
P1dB Power (dBm)		27	
Absolutely max. Power (W)			5-50W upon request
Weight (g)	15		
IIP3 (Input IP3) dBm	42.92		
Impedance(Ohms)	50Ω		
Power Supply (V)	+/-5 V DC		
Current(mA)	50mA (+5V) 30mA (-5V)		
Input Connector	SMA-Female		
Output Connector	SMA-Female		
Finishing	Gold Plating		
Material	Brass		
Seal	Hermetically Sealed		
Control (TTL Driver Included)	TTL Control		
	TTL	Status	
	0	OFF	
	1	ON	

Reflective Coaxial Single Pole Single Throw Switch 2-4.0GHz



Absolute Maximum Ratings	
Biasing	+/-5 V
TTL Control Voltage	+5V/oV
Input RF power	20dBm
Storage Temperature (C°)	-50 ~ +125

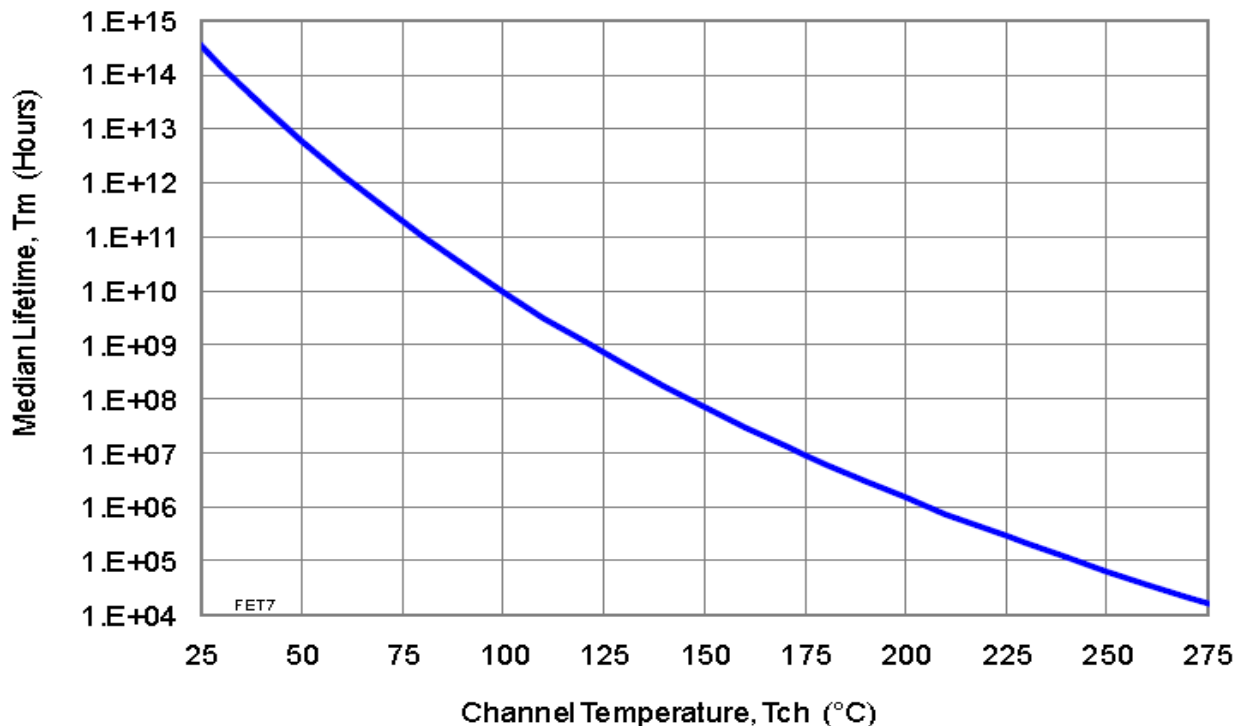
Biasing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

Environment specifications	
Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft (Controlled environment)
Vibration	15g 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
RFSPSTR0204G	EAR99	SPST 2-4GHz PIN Diode Switch



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



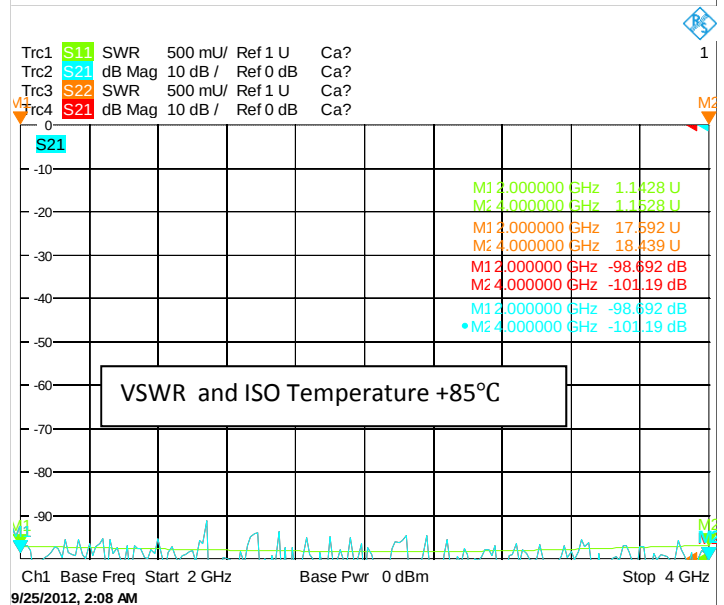
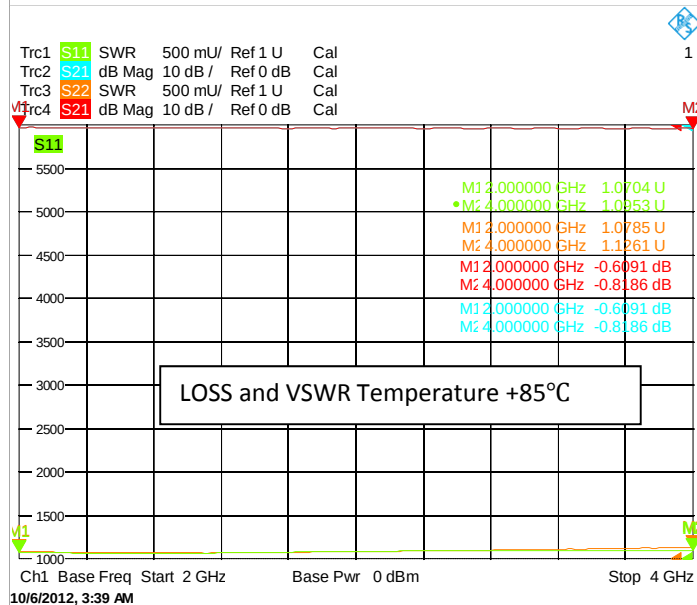
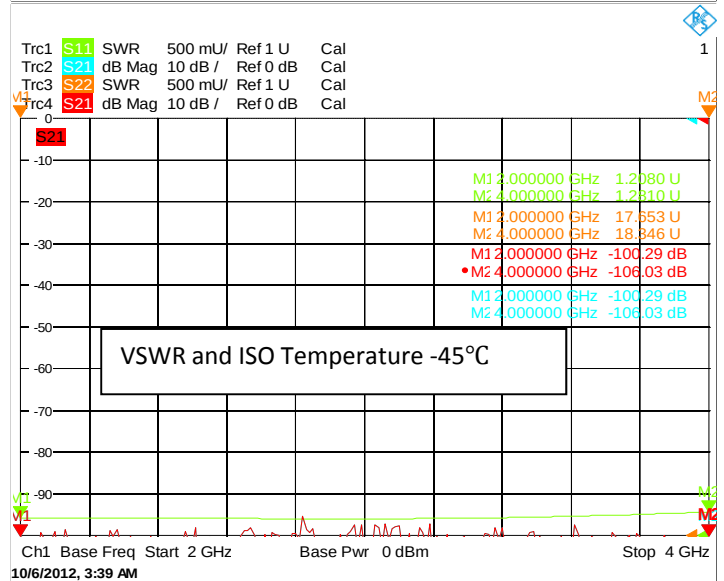
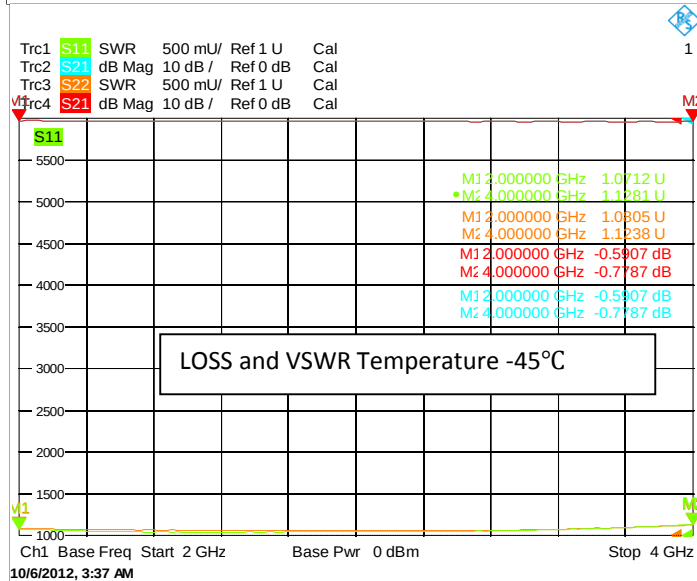
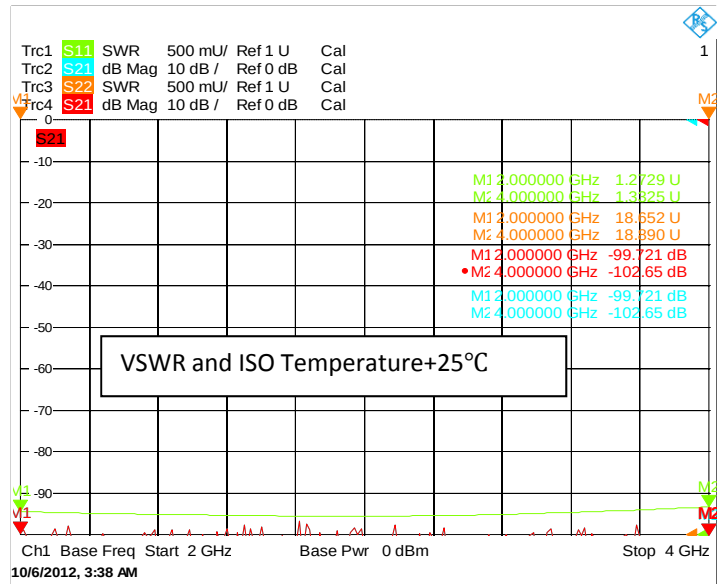
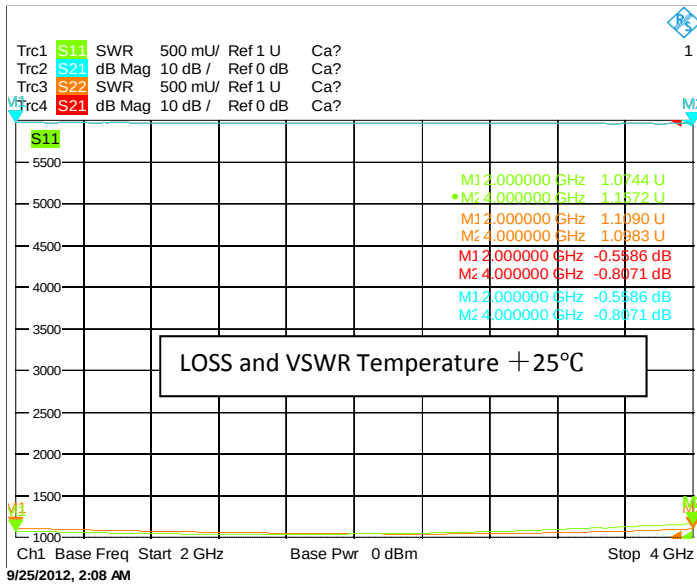


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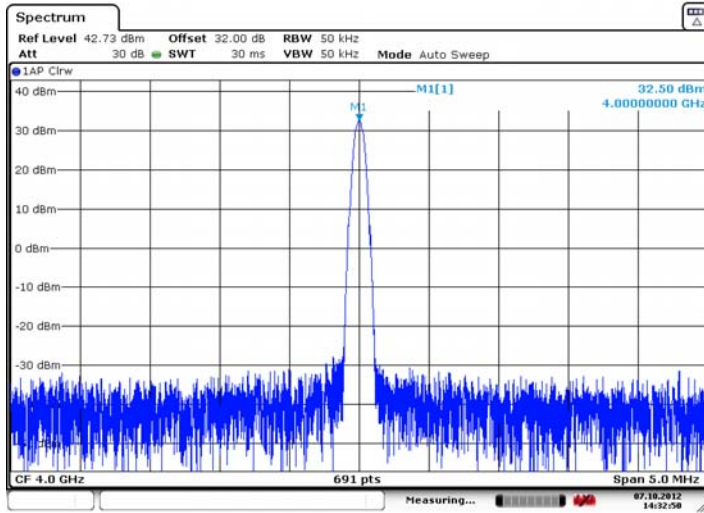


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The power beyond expectations

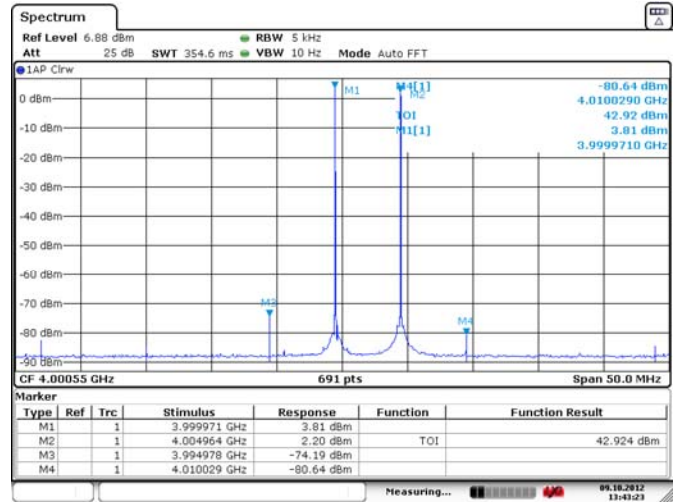
RFSPSTR0204G

1dB Compression Point

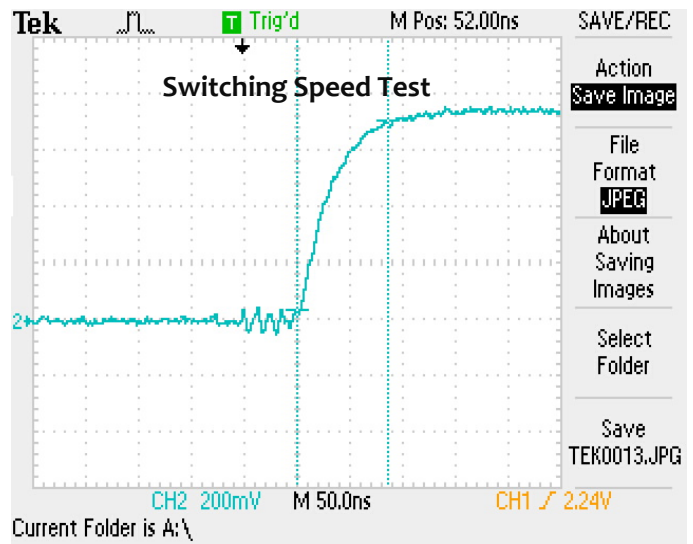
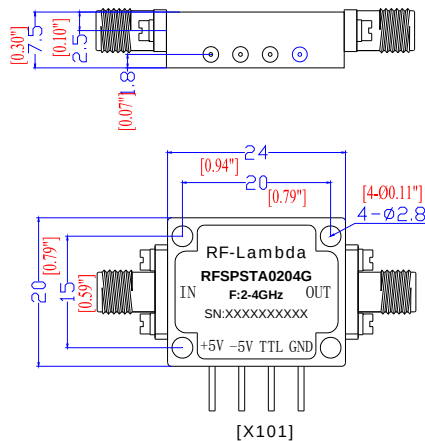


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IP3 – INPUT IP3 Point



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Reflective Coaxial Single Pole Single Throw Switch 2-4.0GHz