



## Absorptive 2-4.0GHz Coaxial SP8T Switch



### Features

- Wide Band Operation 2.0-4.0GHz
- High Power Handle Capability up to 5W 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	Absorptive type			
	PN: RFSP8TA0204G			
	Low	Med	High	
Frequency Range(GHz)	2	3	4	
Insertion Loss(dB)	1.2dB typ. @2GHz	1.5dB typ. @3GHz	2.0dB typ. @4GHz	
VSWR	1.3	1.3	1.5	
Isolation(dB)	85	85	80	
Switching Speed(ns)	50	100	150	
PrdB Power (dBm)		27		
Absolutely max. Power (W)			5	
Weight (g)	65			
IIP3 (Input IP3) dBm	40			
Impedance(Ohms)	50Ω			
Power Supply (V)	+/-5 V DC			
Current(mA)	240mA (+5V) 100mA (-5V)			
Input Connector	SMA-Female			
Output Connector	SMA-Female			
Finishing	Gold Plating			
Material	Brass			
Seal	Hermetically Sealed			
Control (TTL Driver Included)	TTL Control			
	C3	C2	C1	Status
	0	0	0	Jo-J1
	0	0	1	Jo-J2
	0	1	0	Jo-J3
	0	1	1	Jo-J4
	1	0	0	Jo-J5
	1	0	1	Jo-J6
	1	1	0	Jo-J7
1	1	1	Jo-J8	



# RF-LAMBDA

The power beyond expectations

RFSP8TA0204G

Absorptive Coaxial Single Pole Eight Throw Switch 2-4.0GHz

Absolute Maximum Ratings	
Biassing	+/-5 V
TTL Control Voltage	+5V/0V
Input RF power	20dBm
Storage Temperature (C°)	-50 ~ +125

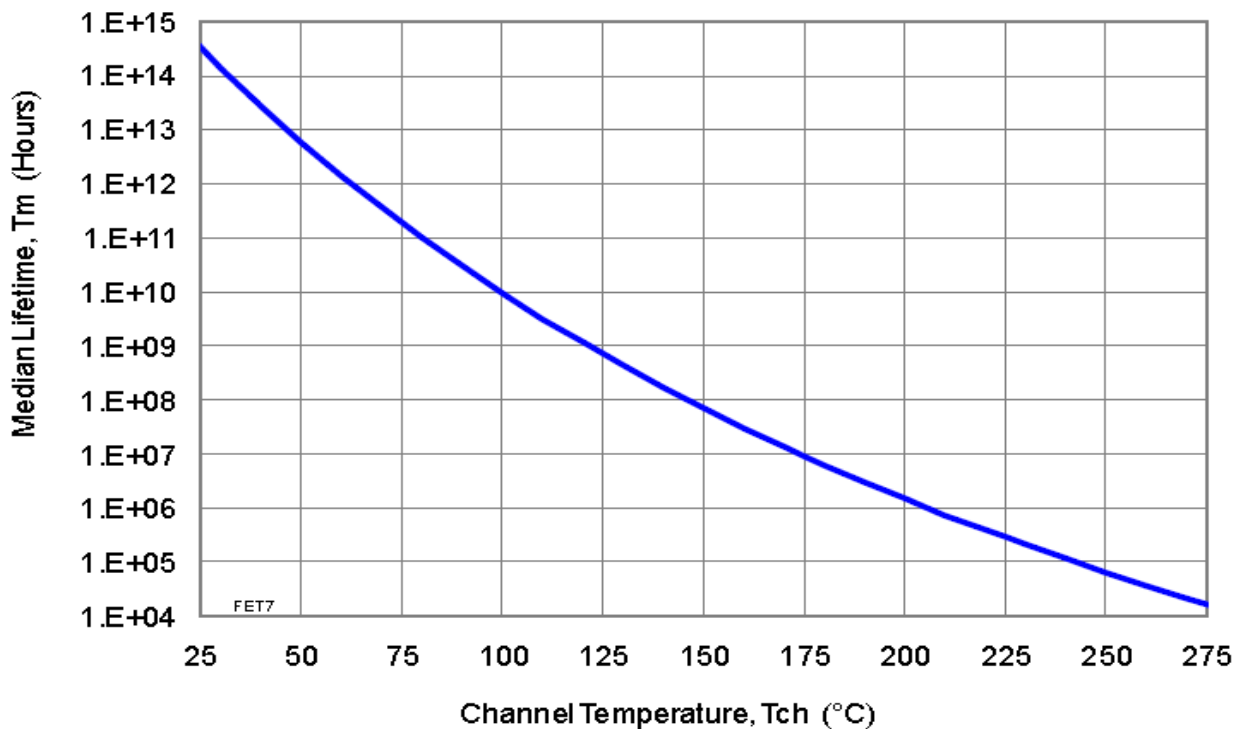
Biassing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

Environment specifications	
Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft (Controlled environment)
Vibration	65g 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
RFSP8TA0204G	EAR99	SP8T 2-4GHz PIN Diode Switch



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



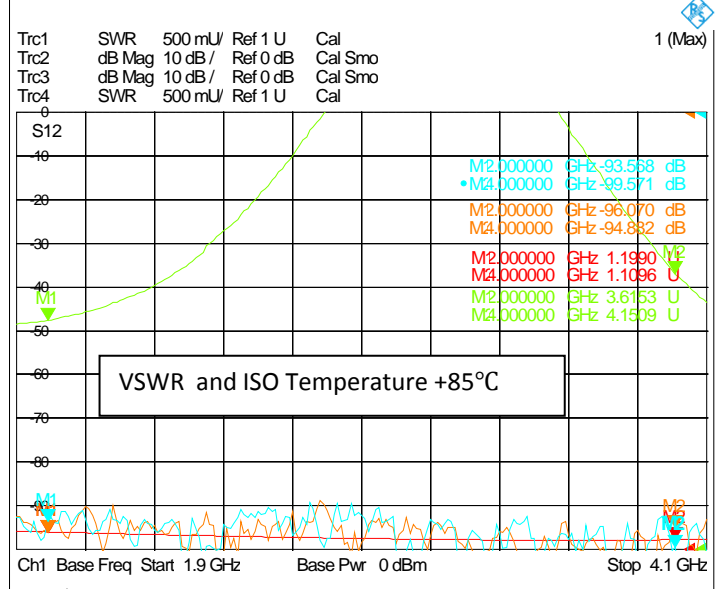
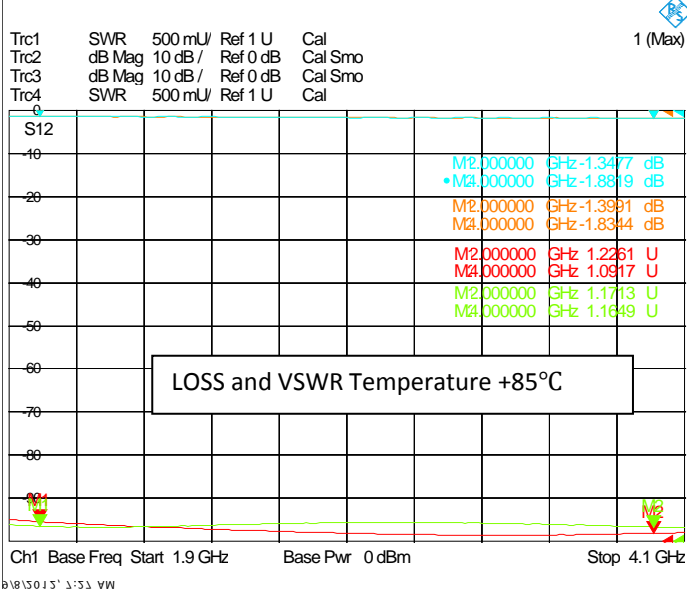
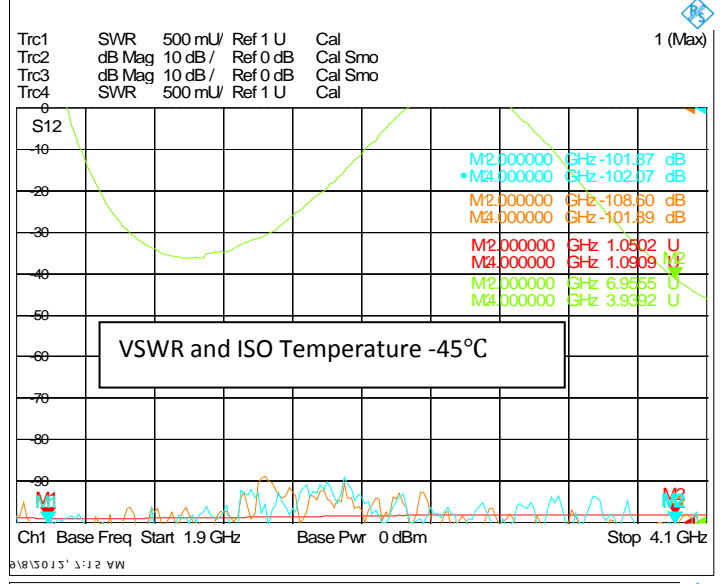
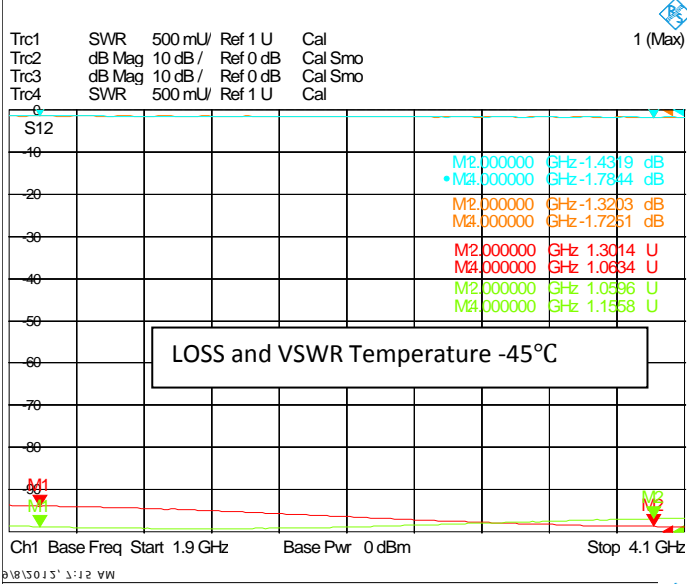
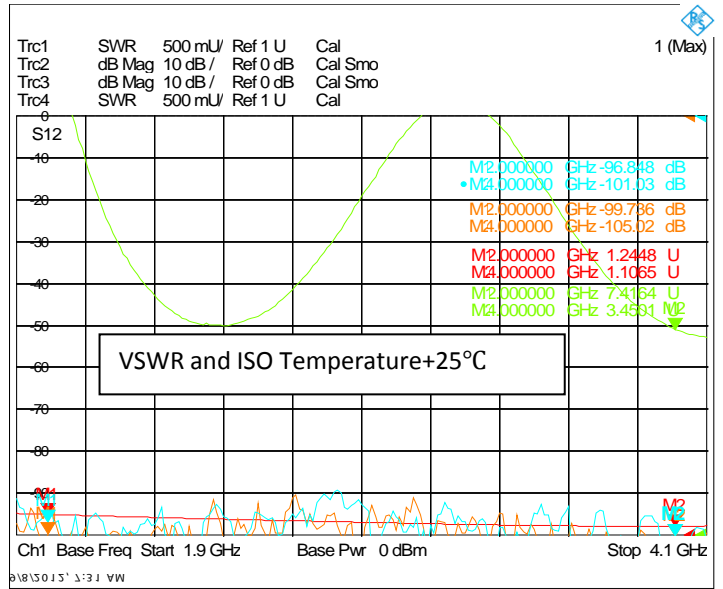
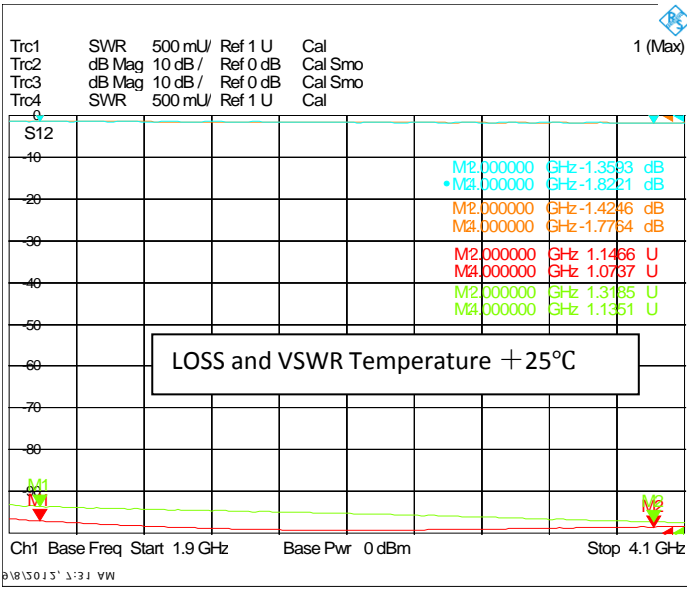


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Absorptive Coaxial Single Pole Eight Throw Switch 2-4.0GHz



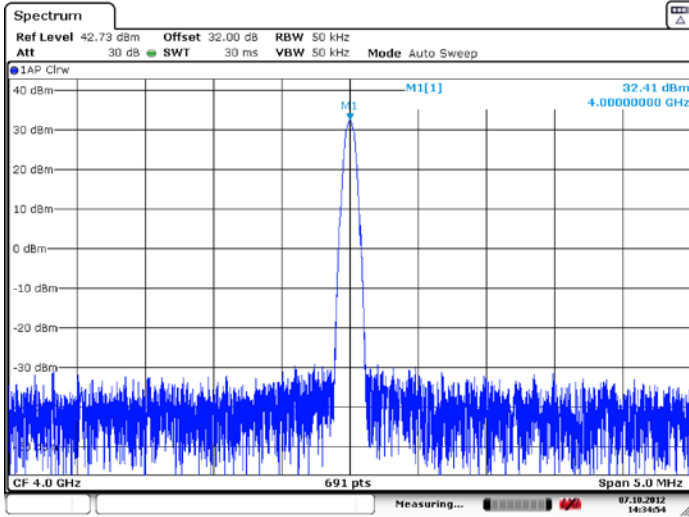


# RF-LAMBDA

The power beyond expectations

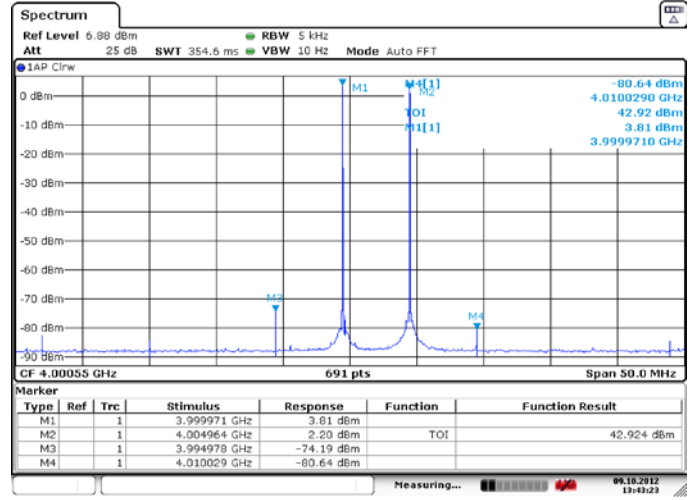
## RFSP8TA0204G

### 1dB Compression Point

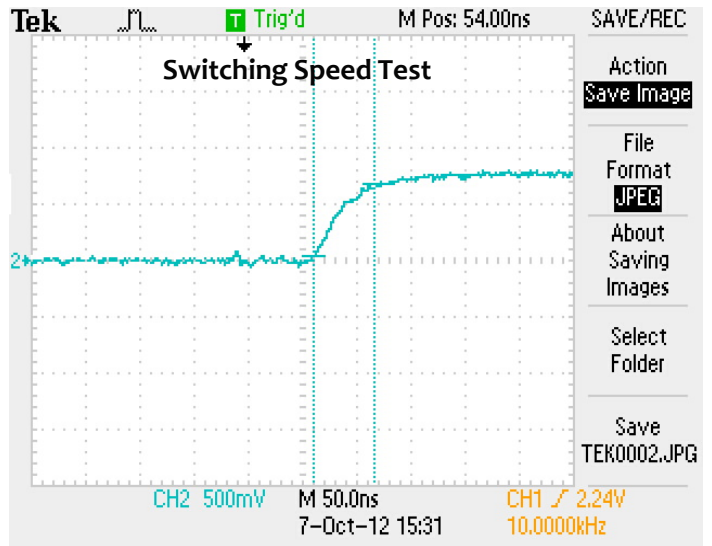
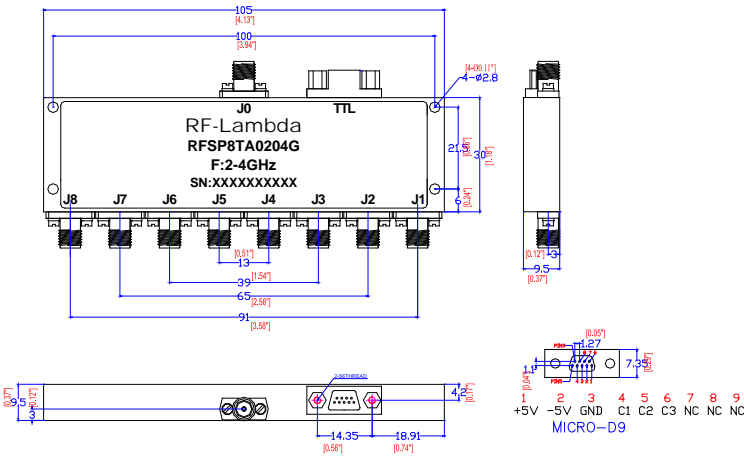


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### IP3 – INPUT IP3 Point



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Absorptive Coaxial Single Pole Eight Throw Switch 2-4.0GHz