

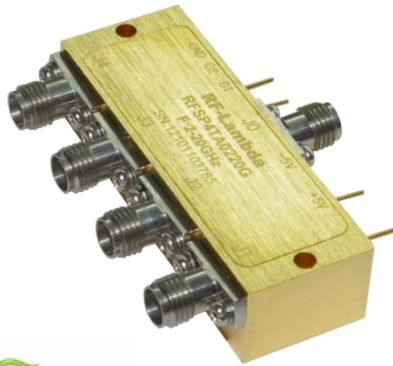


RF-LAMBDA

The power beyond expectations

RFSP4TA0220G

Absorptive 2-20.0GHz Coaxial SP4T Switch



Features

- Wide Band Operation 2.0-20.0GHz
- 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: RFSP4TA0220G				
	Low		Med		High
Frequency Range(GHz)	2		11		20
Insertion Loss(dB)	2.5dB typ. @2GHz		3.0dB typ. @5GHz		3.6dB typ. @8GHz
VSWR	1.8		1.8		2.0
Isolation(dB)	65		65		60
Switching Speed(ns)	50		50		100
P1dB Power (dBm)			27		
Absolutely max. Power (W)					5
Weight (g)	35				
IIP3 (Input IP3) dBm	42.92				
Impedance(Ohms)	50Ω				
Power Supply (V)	+/-5 V DC				
Current(mA)	30mA (+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				
	C4	C3	C2	C1	Status
	1	1	1	0	J0-J1
	1	1	0	1	J0-J2
	1	0	1	1	J0-J3
	0	1	1	1	J0-J4

Absorptive Coaxial Single Pole Four Throw Switch 2-20.0GHz



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

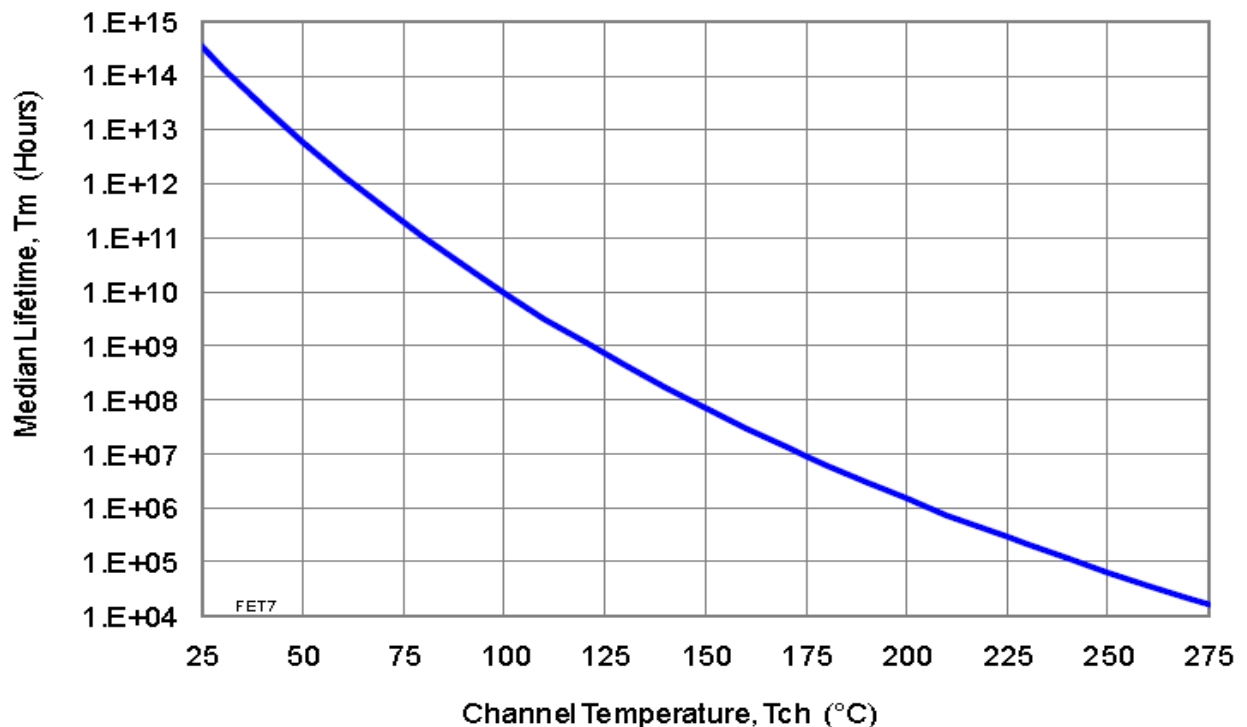
Biasing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

Environment specifications	
Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft (Controlled environment)
Vibration	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
RFSP4TA0220G	EAR99	SP4T 2-20GHz PIN Diode Switch



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



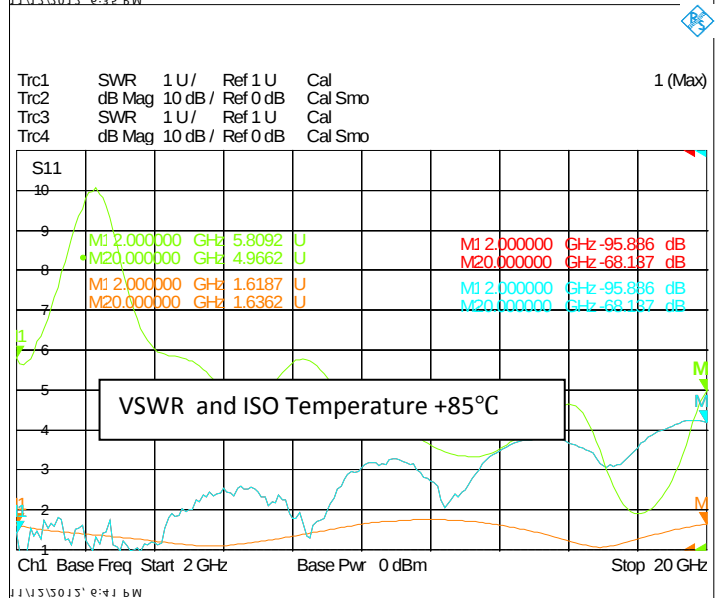
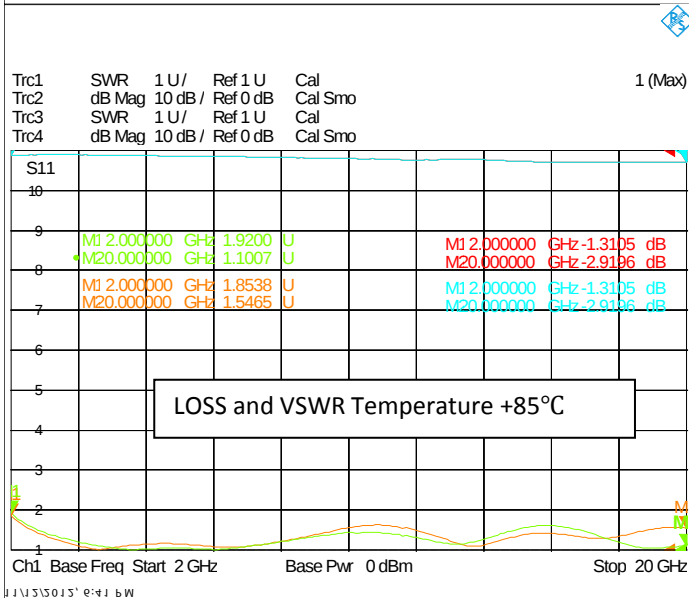
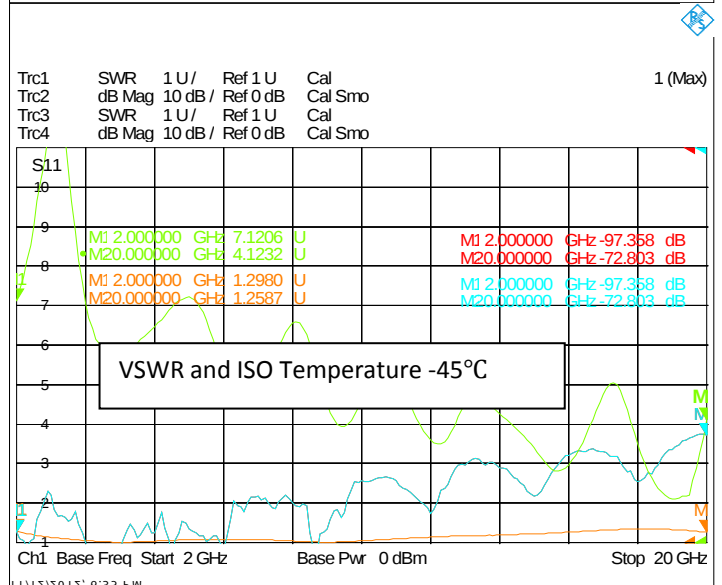
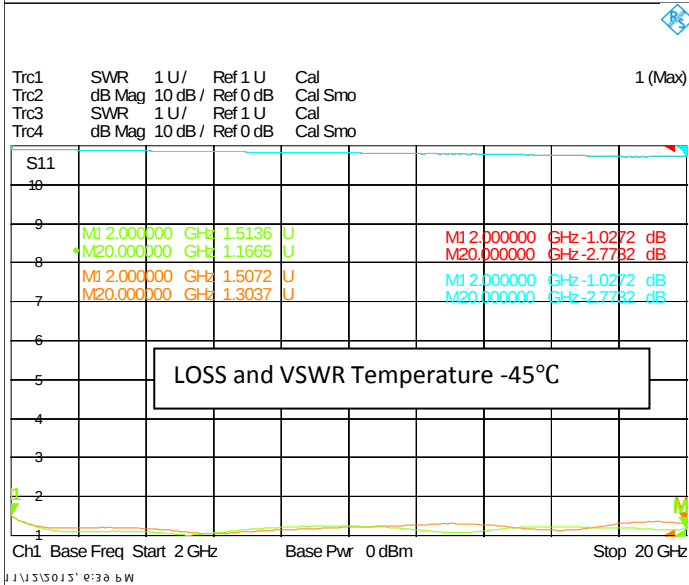
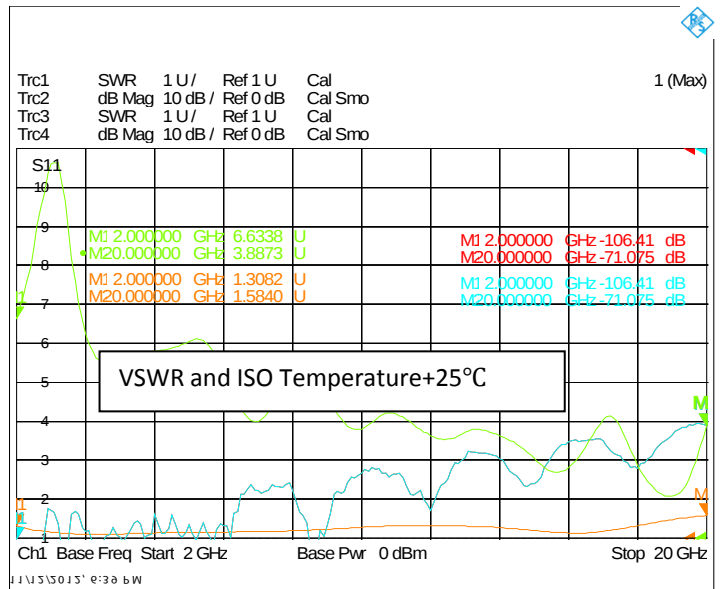
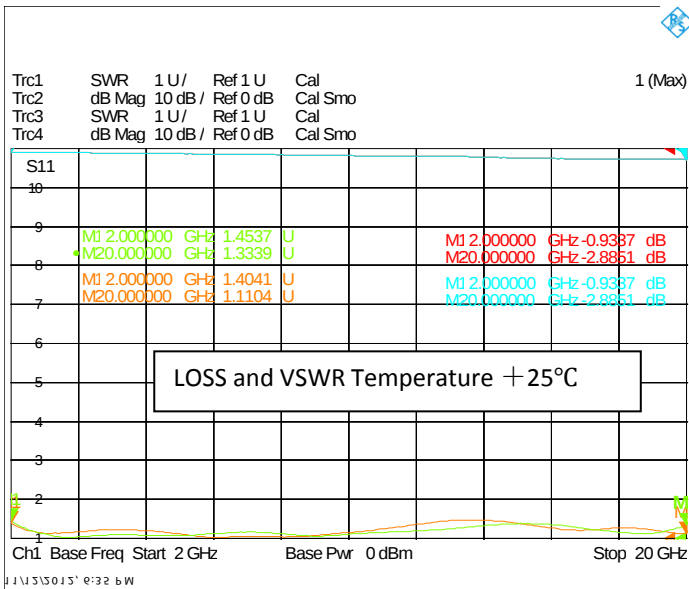


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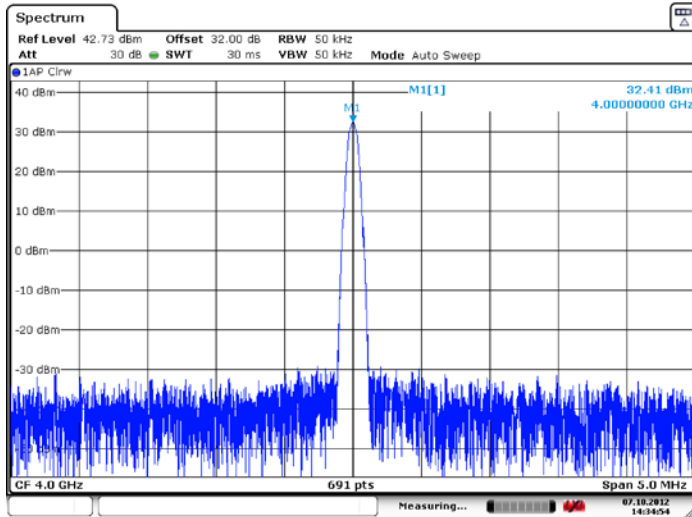


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The power beyond expectations

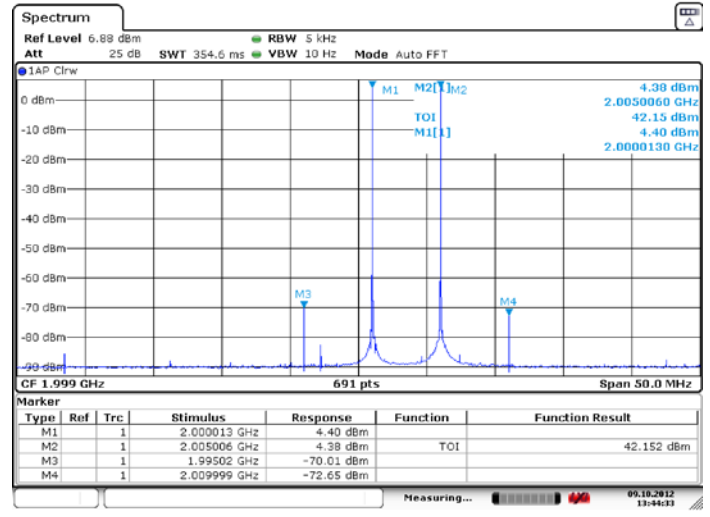
RFSP4TA0220G

1dB Compression Point

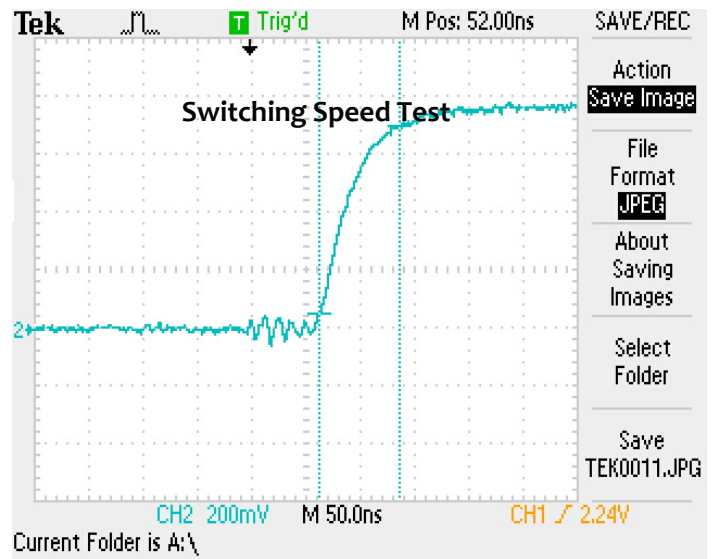
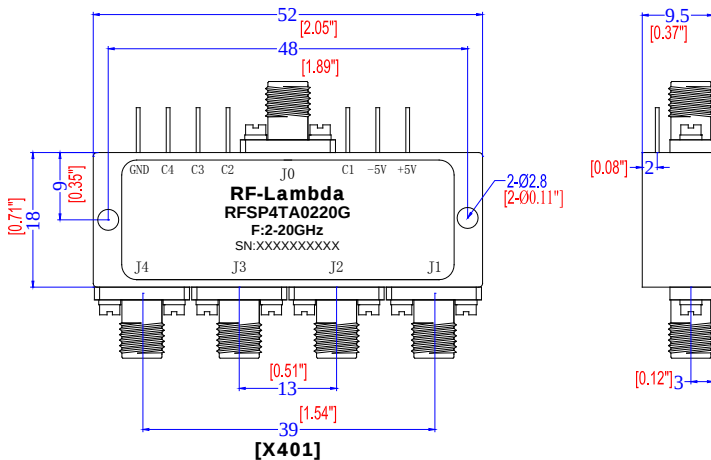


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IP3 – INPUT IP3 Point



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Absorptive Coaxial Single Pole Four Throw Switch 2-20.0GHz