



RF-LAMBDA

The power beyond expectations

RFSP3TR0208G

Reflective 2-8.0GHz Coaxial SP3T Switch



Features

- Wide Band Operation 2.0-8.0GHz
- 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: RFSP3TR0208G (5W version)			
	Low	Med	High	
Frequency Range(GHz)	2	5	8	
Insertion Loss(dB)	1.2dB typ. @2GHz	1.0dB typ. @5GHz	1.5dB typ. @8GHz	
VSWR	1.5	1.4	1.5	
Isolation(dB)	85	85	80	
Switching Speed(ns)	50	100	150	
P1dB Power (dBm)		27		
Absolutely max. Power (W)			5W as shown 50W upon request	
Weight (g)	35			
IIP3 (Input IP3) dBm	40			
Impedance(Ohms)	50Ω			
Power Supply (V)	+/-5 V DC			
Current(mA)	100mA (+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			
	C3	C2	C1	Status
	1	1	0	Jo-J1
	1	0	1	Jo-J2
	0	1	1	Jo-J3

Reflective Coaxial Single Pole Three Throw Switch 2-8.0GHz



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

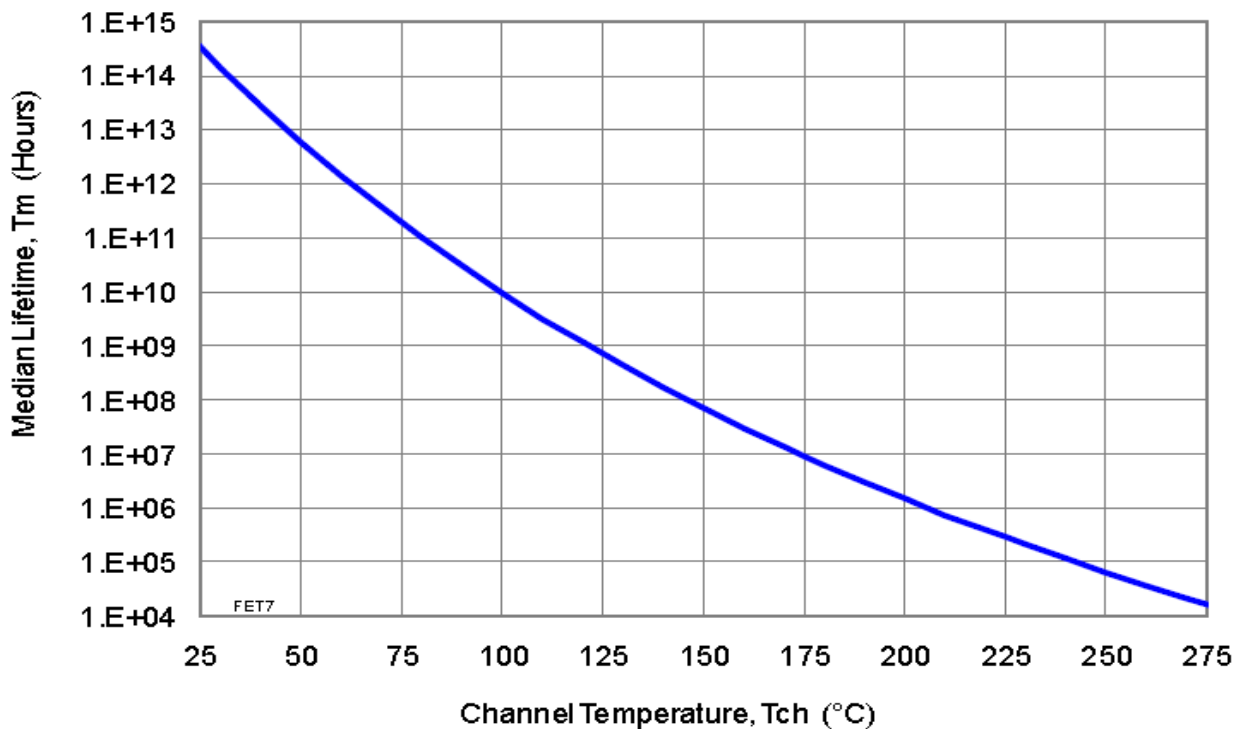
Biasing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

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
RFSP3TR0208G	EAR99	SP3T 2-8GHz PIN Diode Switch



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



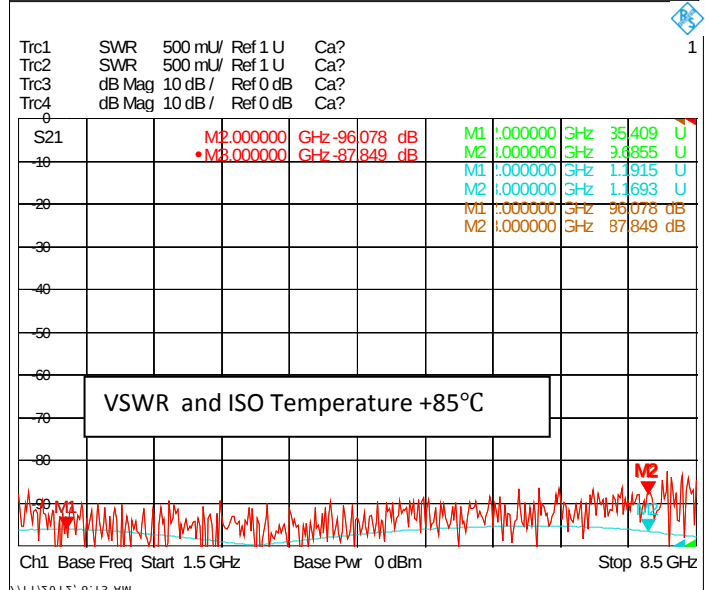
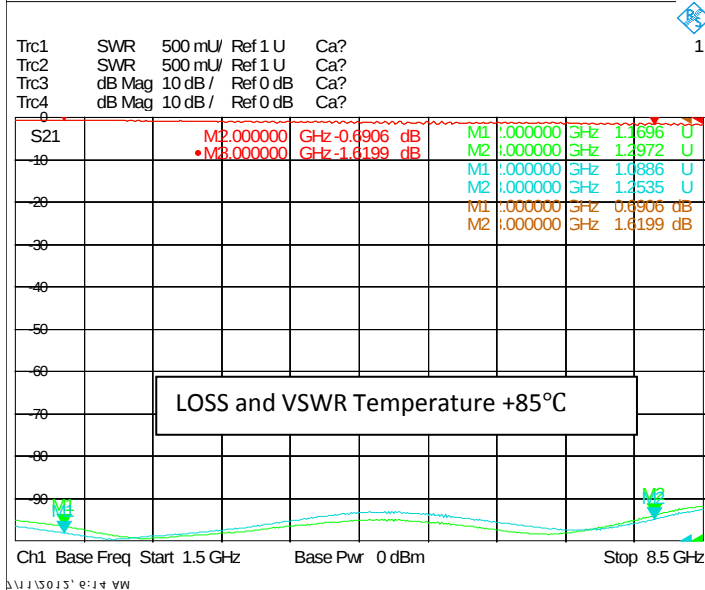
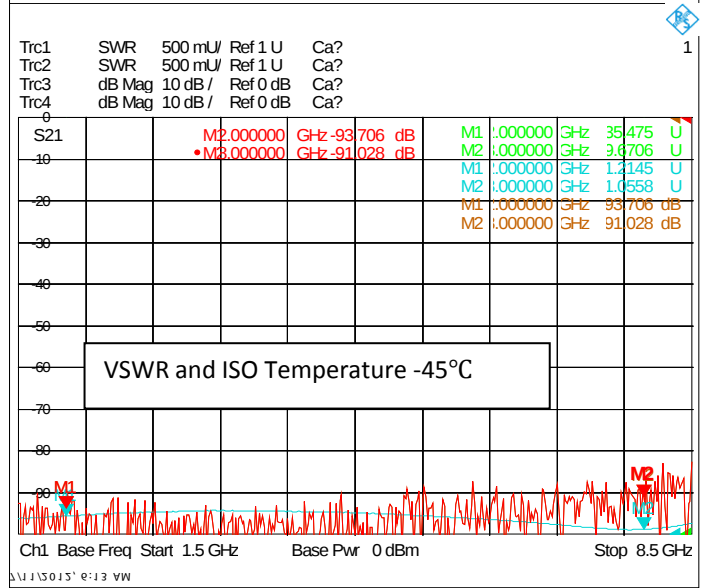
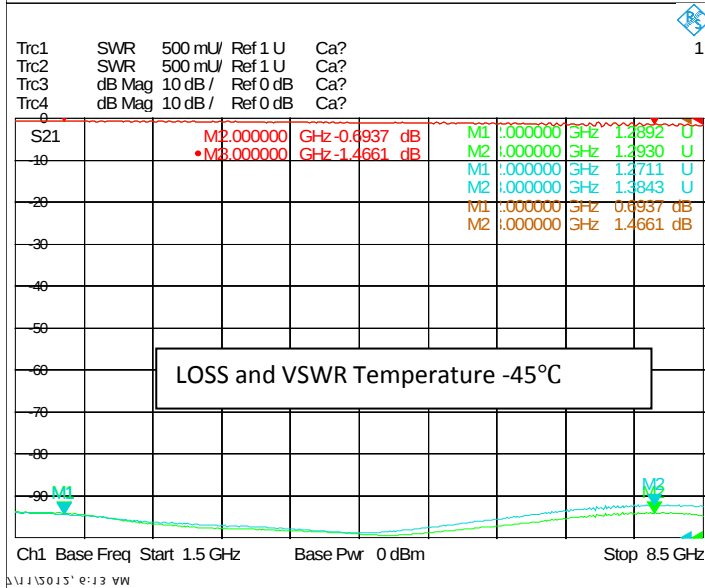
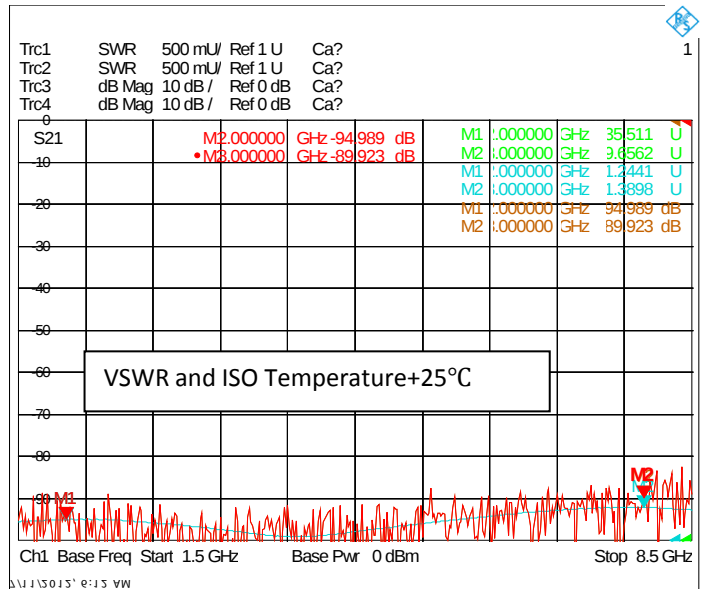
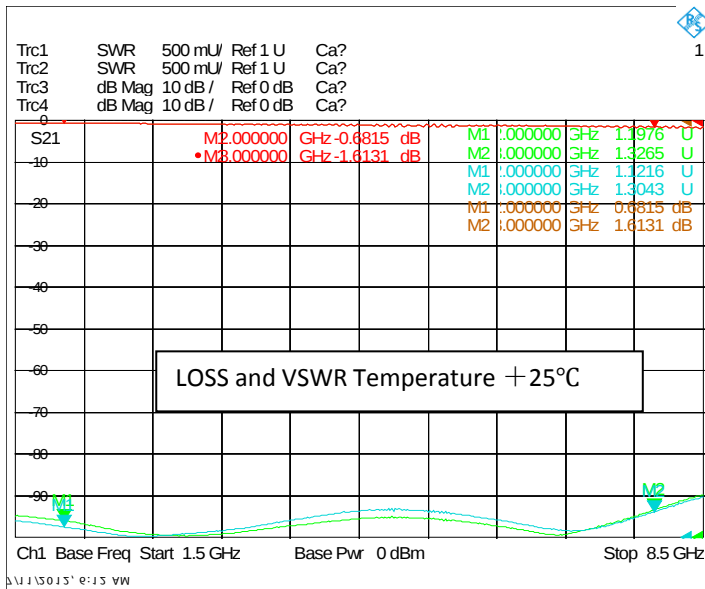


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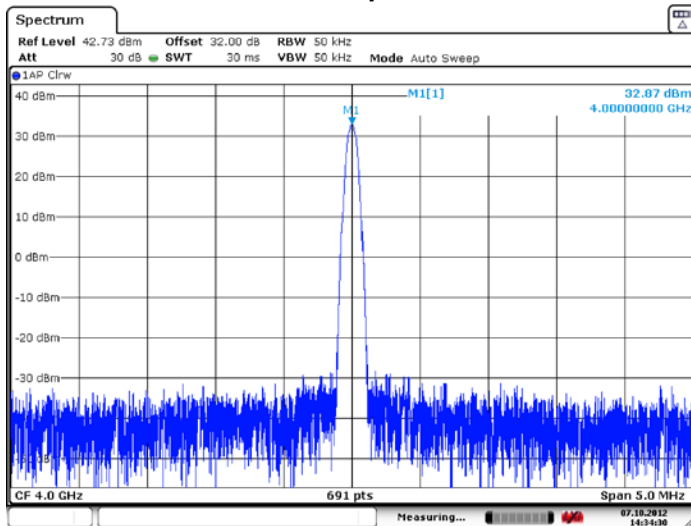


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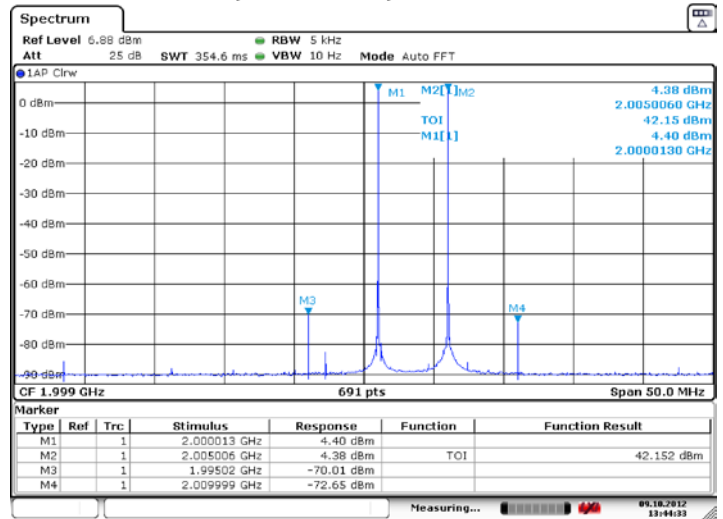
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1dB Compression Point

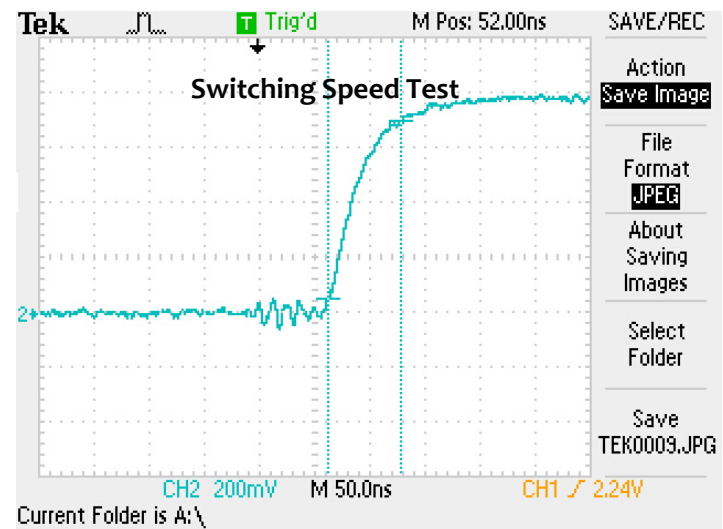
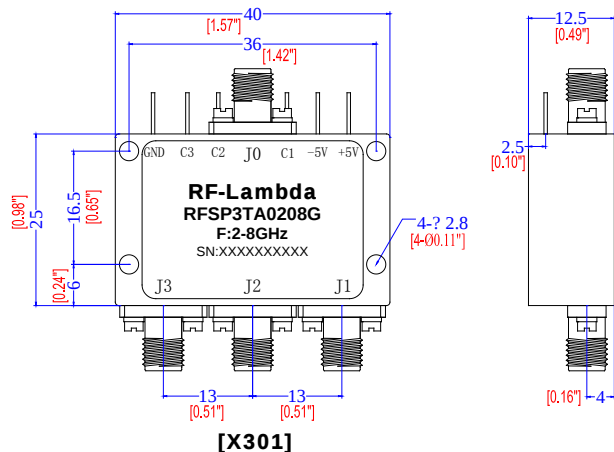


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IP3 – INPUT IP3 Point



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