



RF-LAMBDA

The power beyond expectations

RFSP2TA0003G

Absorptive 20-3000MHz Coaxial SP2T Switch



Features

- Wide Band Operation 20-3000MHz
- 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: RFSP2TA0003G		
	Low	Med	High
Frequency Range(GHz)	0.02	1.51	3
Insertion Loss(dB)	0.8dB typ. @0.02GHz	1.0dB typ. @1.51GHz	1.8dB typ. @3GHz
VSWR	1.5	1.5	2
Isolation(dB)	80	80	80
Switching Speed(ns)	50	100	150
P1dB Power (dBm)		27	
Absolutely max. Power (W)			5
Weight (g)	25		
IIP3 (Input IP3) dBm	42.92		
Impedance(Ohms)	50Ω		
Power Supply (V)	+/-5 V DC		
Current(mA)	80mA (+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		
	C2	C1	Status
	0	0	OFF
	0	1	J0-J2
	1	0	J0-J1

Absorptive Coaxial Single Pole Double Throw Switch 20-3000MHz



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

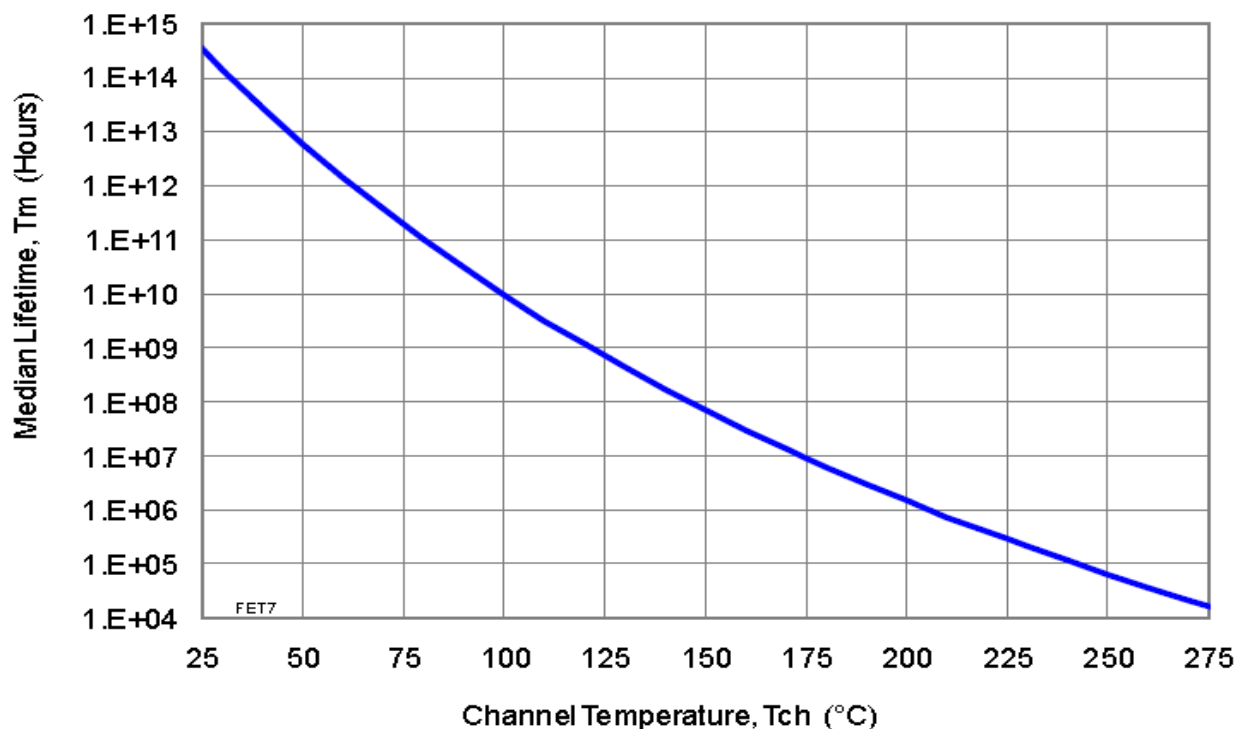
Biasing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

Environment specifications	
Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft (Controlled environment)
Vibration	25g 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
RFSP2TA0003G	EAR99	SP2T 0.02-3GHz PIN Diode Switch



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



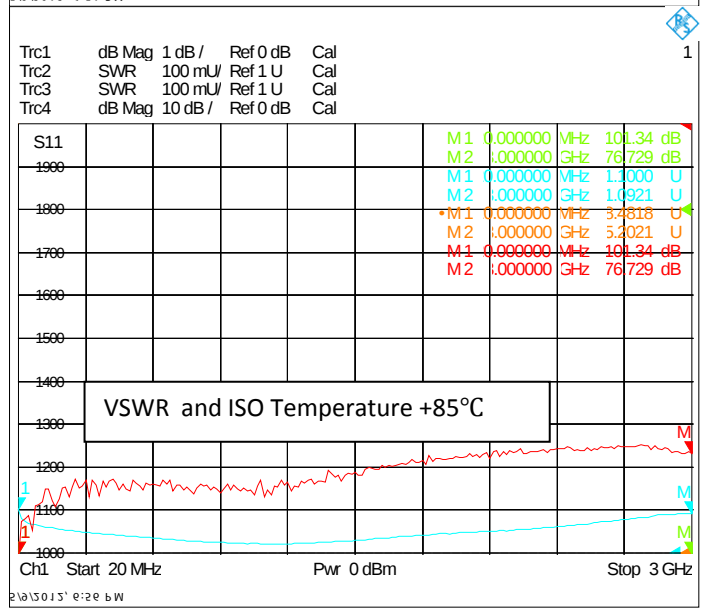
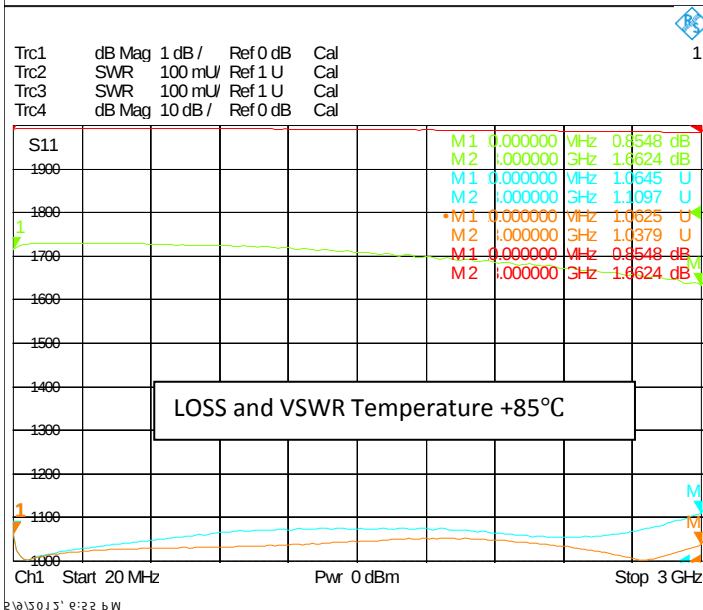
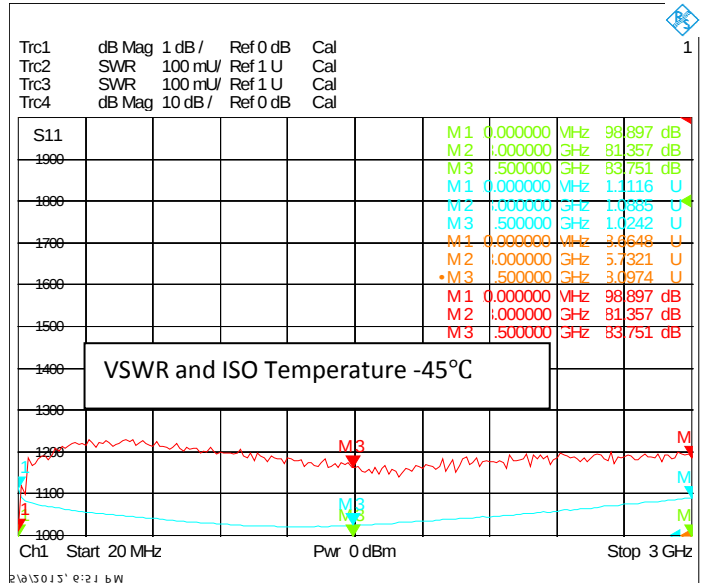
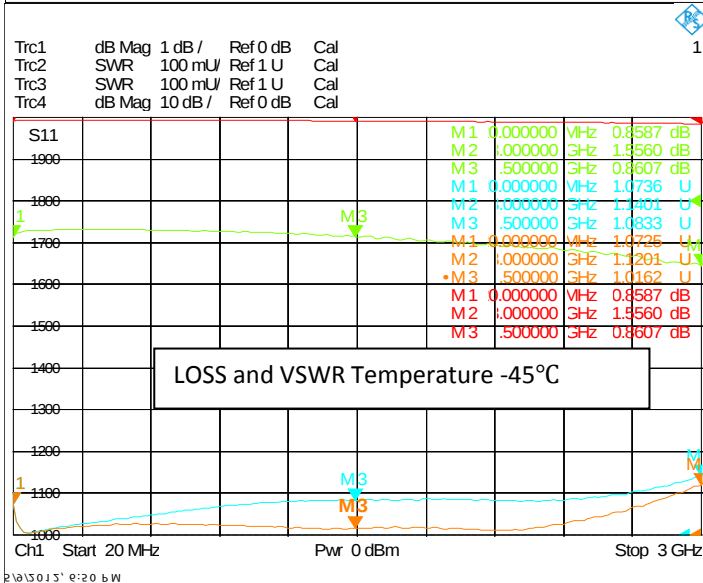
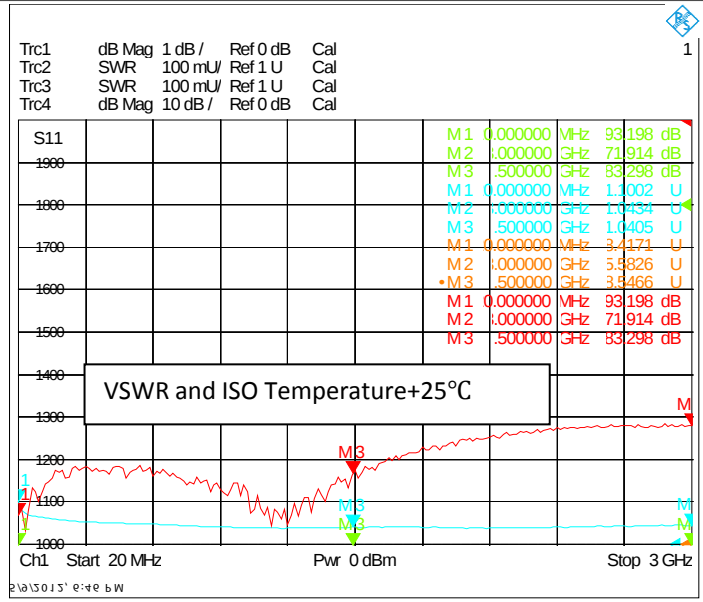
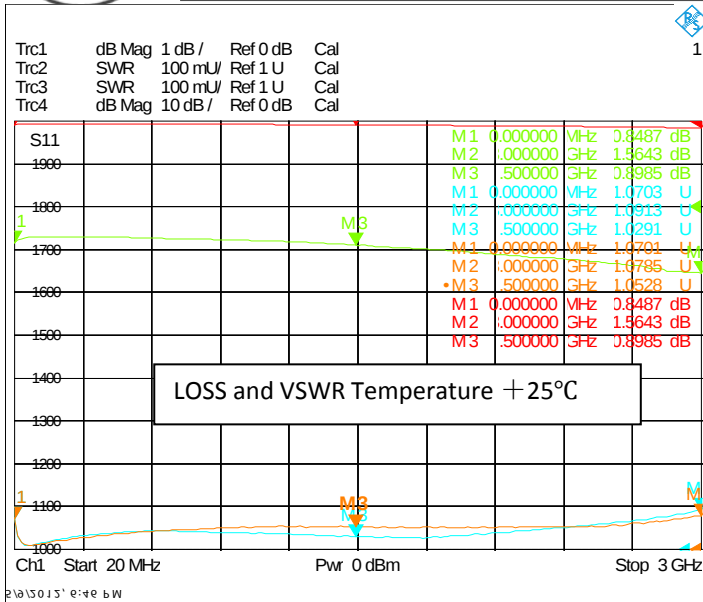


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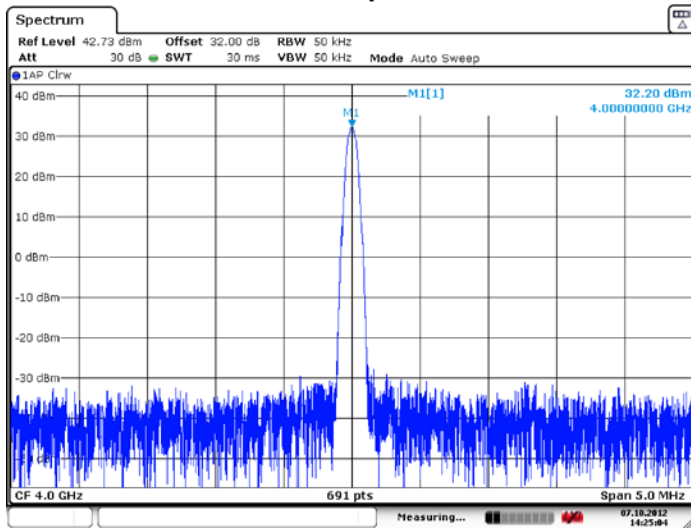


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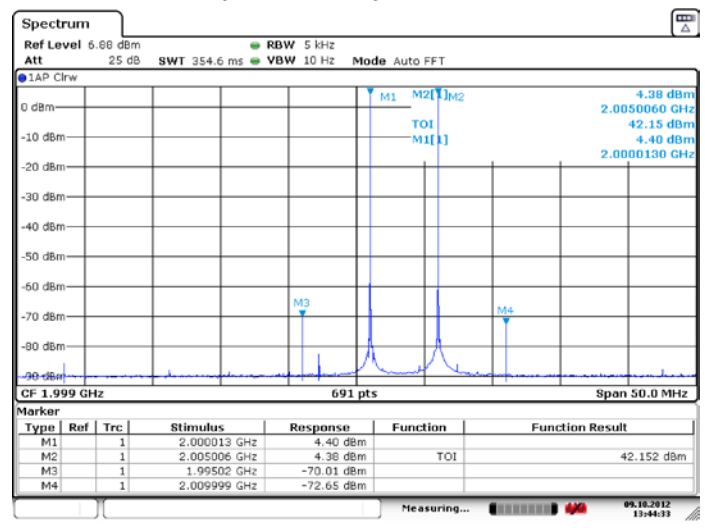
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1dB Compression Point

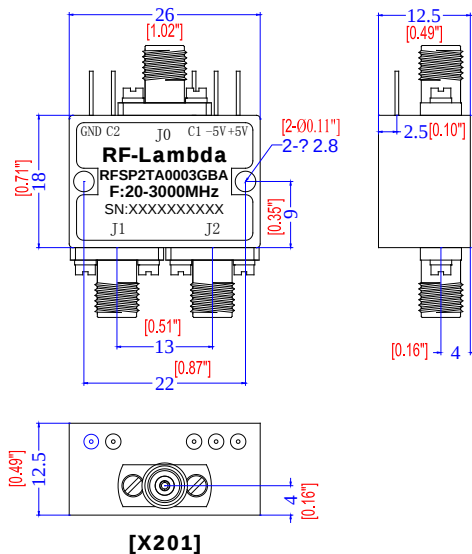


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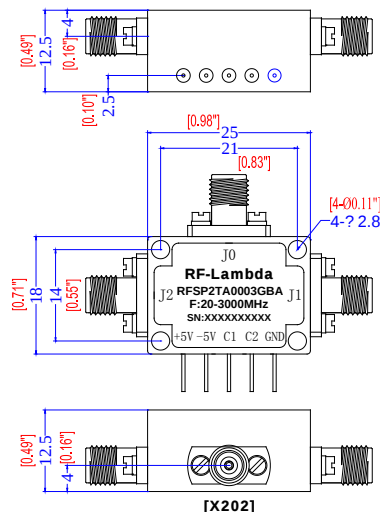
IP3 – INPUT IP3 Point



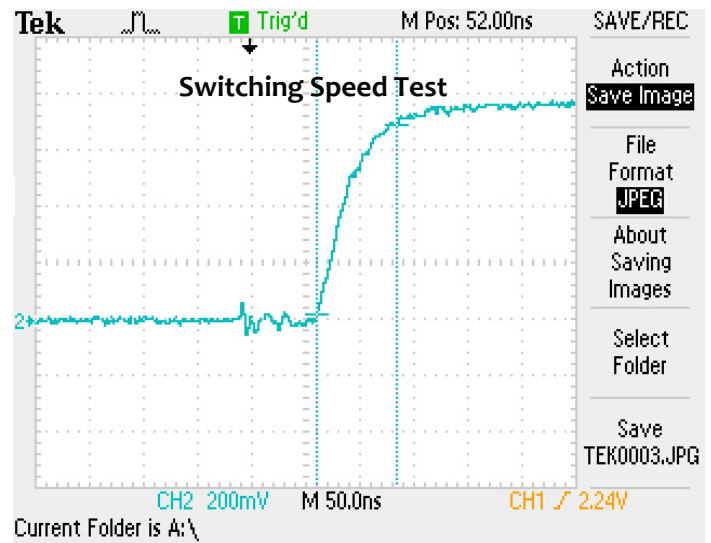
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