

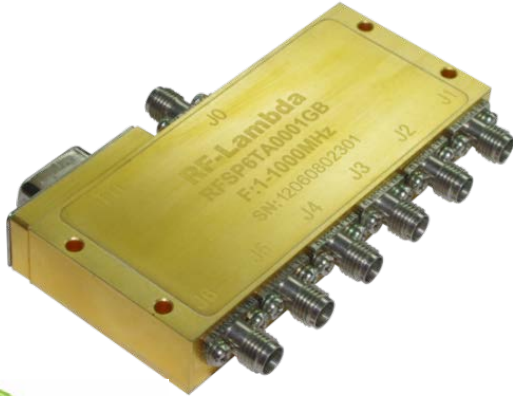


RF-LAMBDA

The power beyond expectations

RFSP6TA0001G

Absorptive 1-1000MHz Coaxial SP6T Switch



Features

- Wide Band Operation 1.0-1000MHz
- High Power Handle Capability up to 1W 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: RFSP6TA0001G			
	Low	Med	High	
Frequency Range(GHz)	0.001	0.5	1	
Insertion Loss(dB)	1.8dB typ. @0.001GHz	1.4dB typ. @0.5GHz	1.8dB typ. @1GHz	
VSWR	1.5	1.3	1.5	
Isolation(dB)	75	80	70	
Switching Speed(ns)	50	100	150	
P1dB Power (dBm)		27		
Absolutely max. Power (W)			1	
Weight (g)	55			
IIP3 (Input IP3) dBm	40			
Impedance(Ohms)	50Ω			
Power Supply (V)	+/-5 V DC			
Current(mA)	180mA (+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

Absorptive Coaxial Single Pole Six Throw Switch 1-1000MHz



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

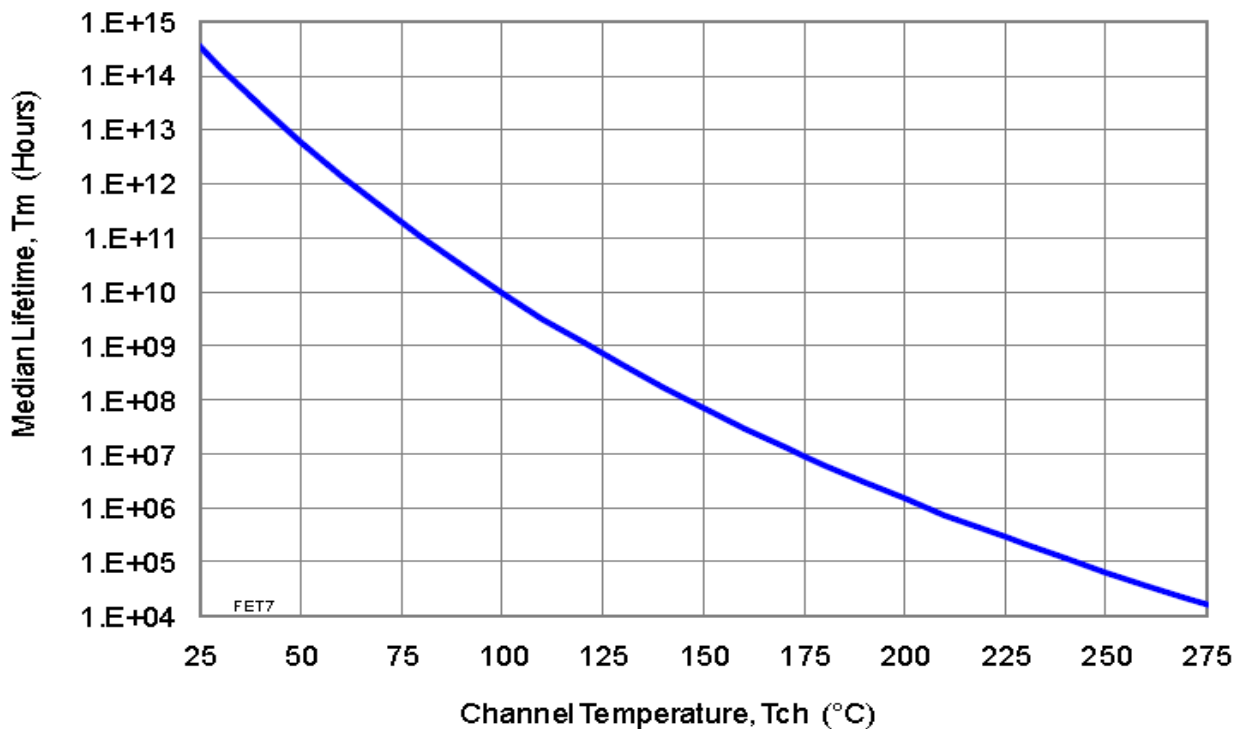
Biasing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

Environment specifications	
Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft (Controlled environment)
Vibration	55g 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
RFSP6TA0001GB	EAR99	SP6T 0.001-1GHz PIN Diode Switch



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



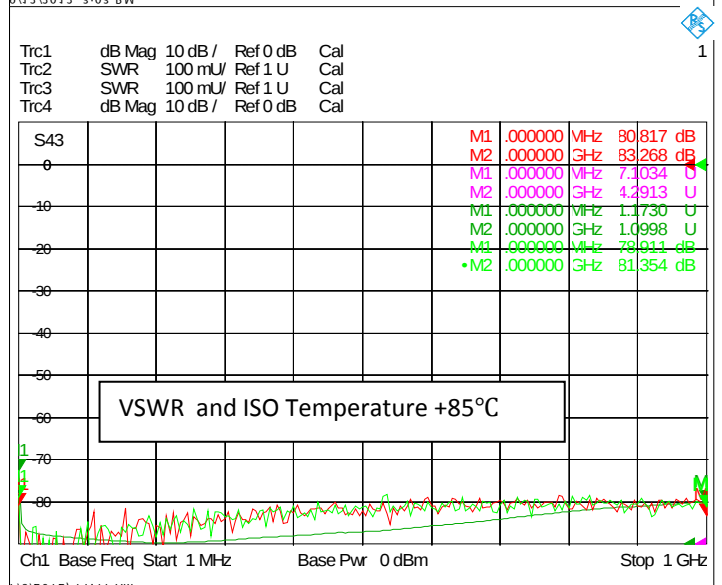
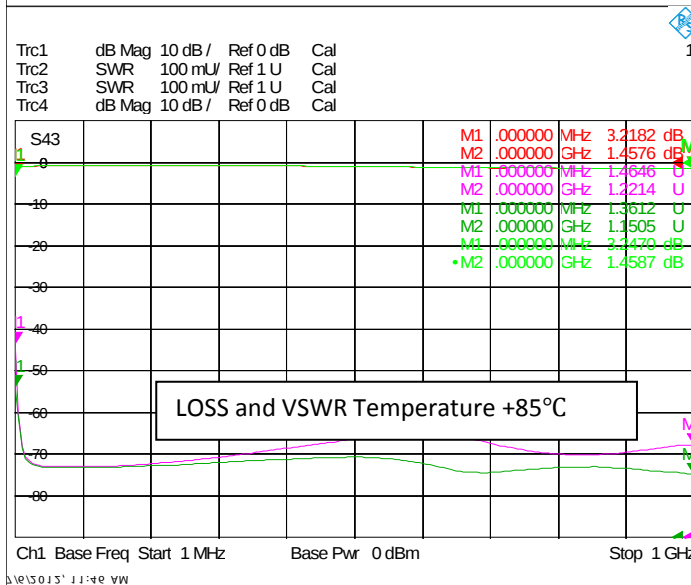
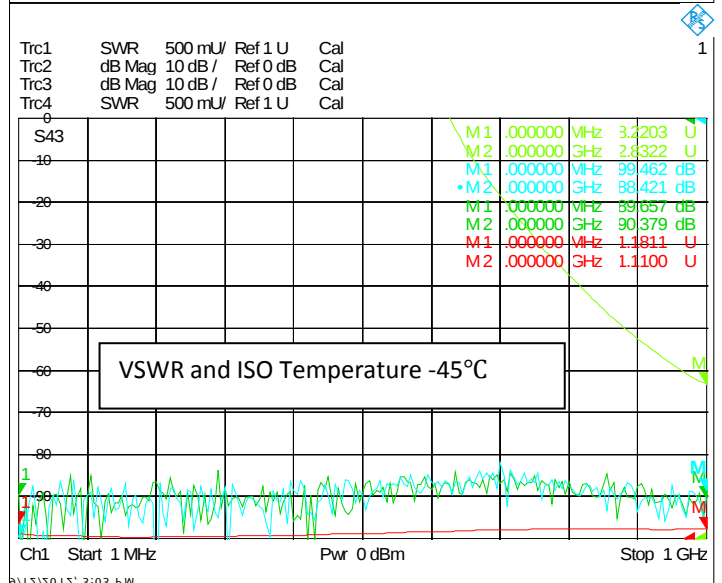
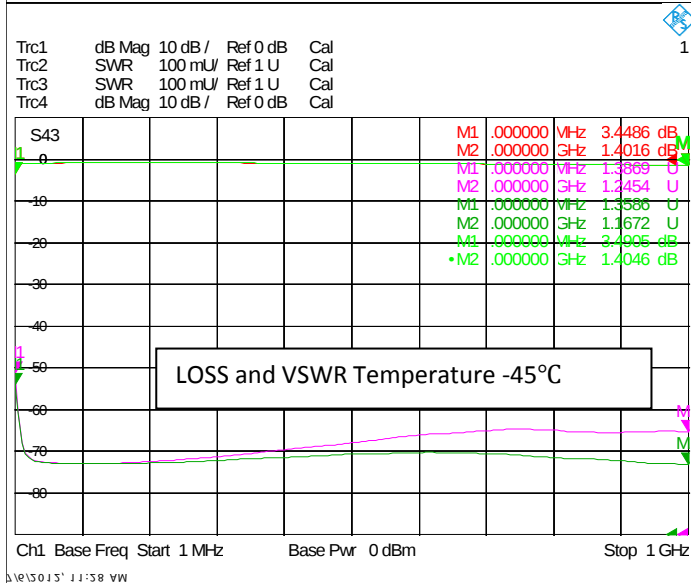
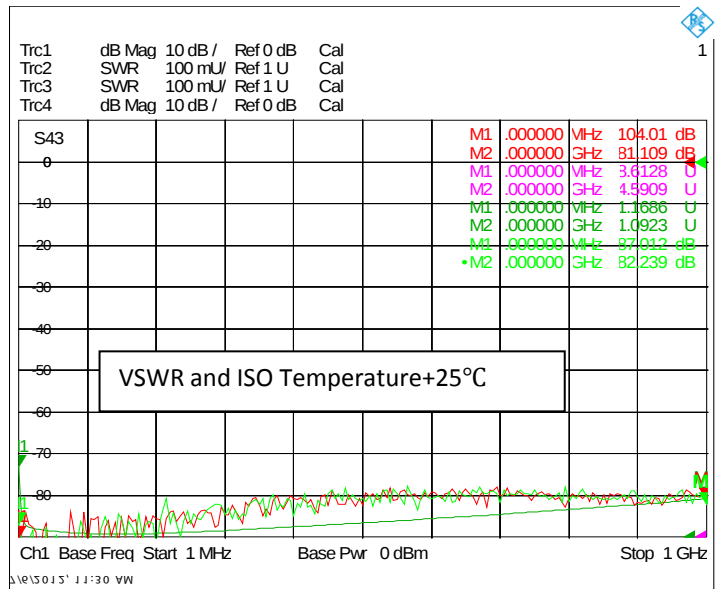
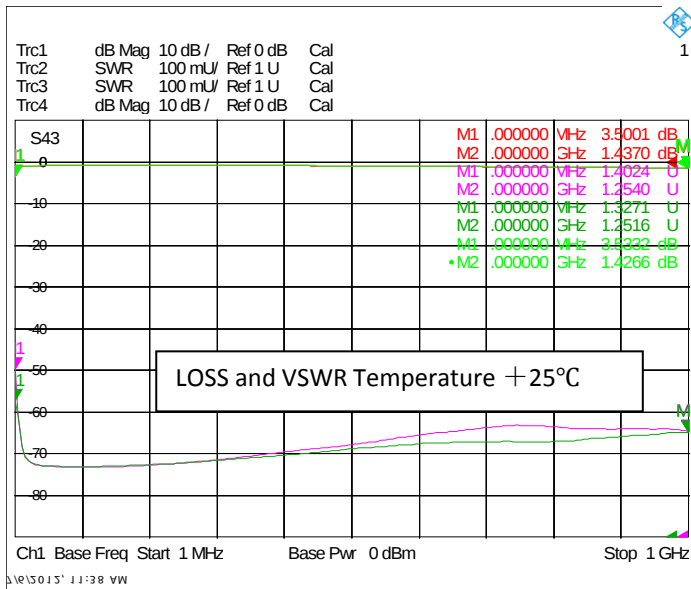


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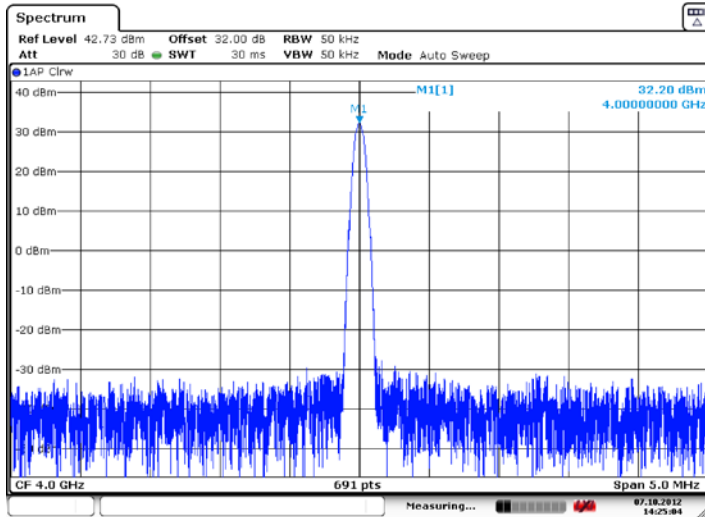


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The power beyond expectations

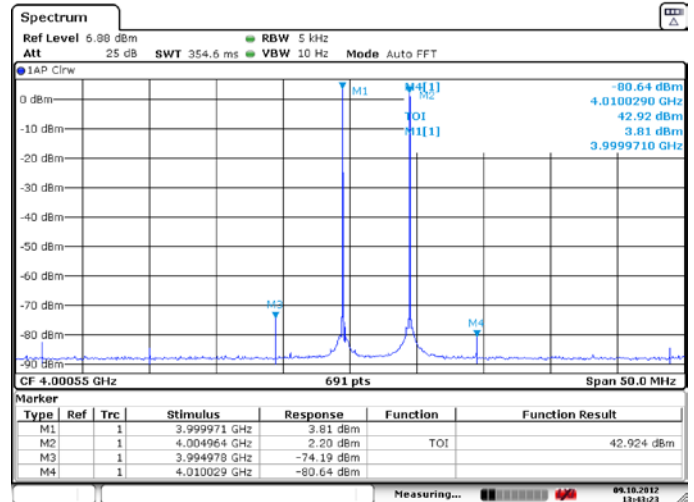
RFSP6TA0001G

1dB Compression Point

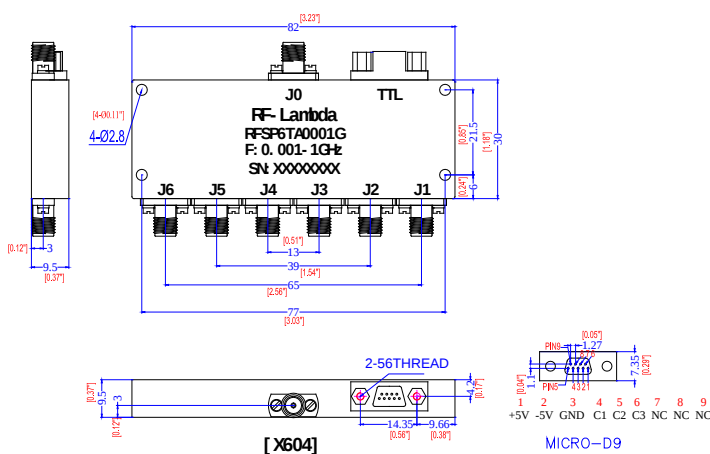
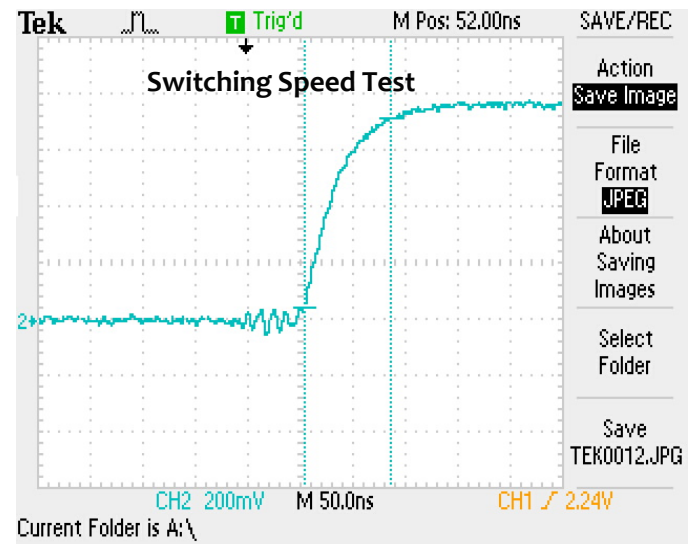
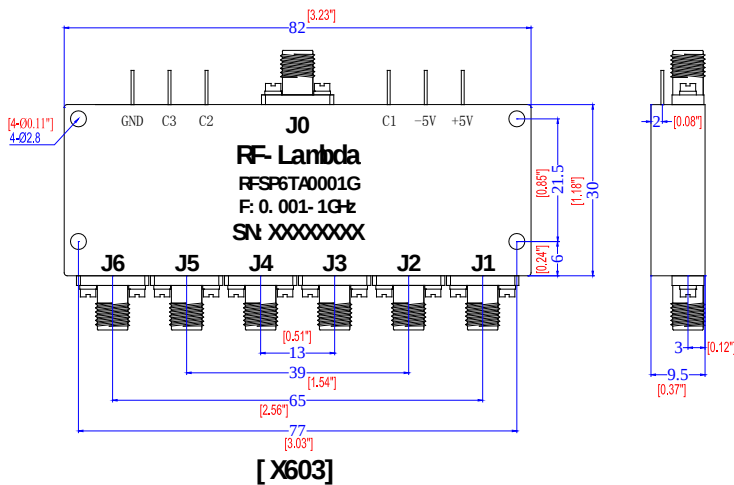


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IP3 – INPUT IP3 Point



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