



RF-LAMBDA

The power beyond expectations

RFSP4TA5M18G

Absorptive 0.5-18GHz Coaxial SP4T Switch



Features

- Wide Band Operation 0.5-18GHz
- High Power Handle Capability up to 5W upon request.
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Temperature Range -45°C~+85°C
- Customization available upon request

Specification	Absorptive type				
	PN: RFSP4T A5M18G				
	Low		Med		High
Frequency Range(GHz)	0.5		9.25		18
Insertion Loss(dB) typ.	2.8dB		3.0dB		3.5dB
VSWR	2.0		1.8		2.0
Isolation(dB)	65		65		60
Switching Speed(ns)	50		50		50
P1dB Power (dBm)			24		
max. Power (W)					1
Weight (g)	35				
IIP3 (Input IP3) dBm	42.92				
Impedance(Ohms)	50Ω				
Power Supply (V)	+/-5 V DC				
Current(mA)	180mA (+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				
	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

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Absolute Maximum Ratings	
Biasing	+/-5 V
TTL Control Voltage	+5V/oV
Input RF power	+30dBm
Storage Temperature (C°)	-50 ~ +125

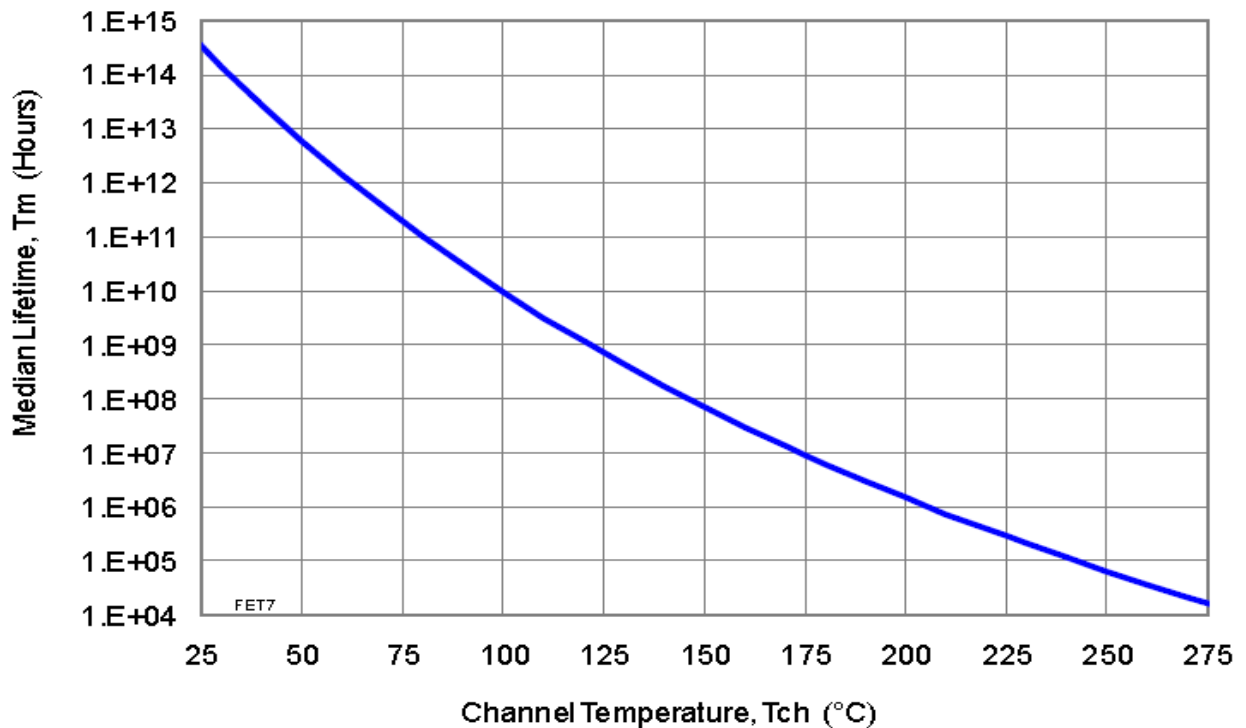
Biasing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

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
RFSP4T A5M18G	EAR99	SP4T 0.5-18GHz PIN Diode Switch



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



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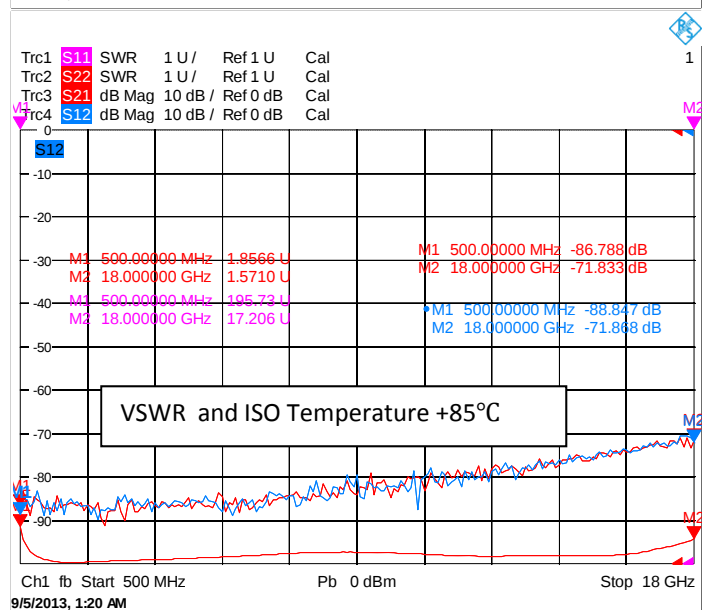
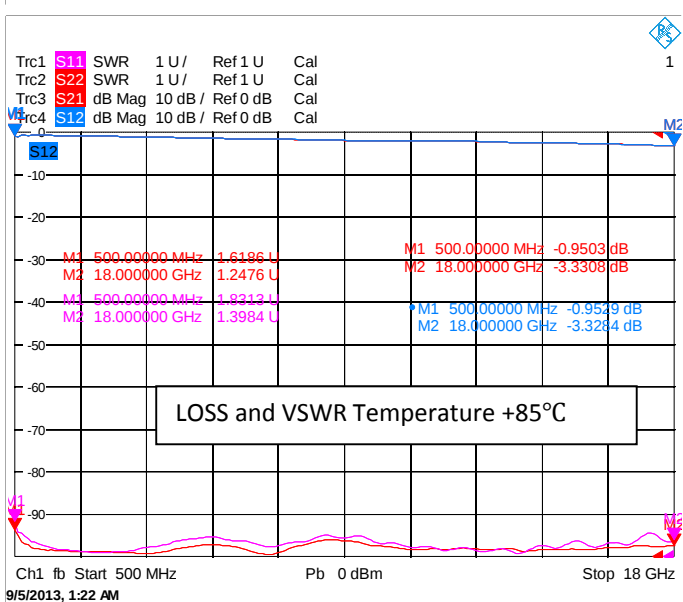
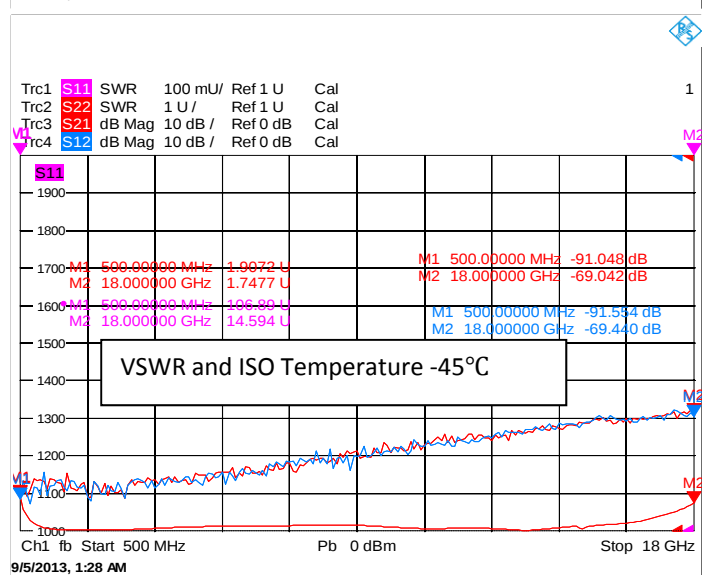
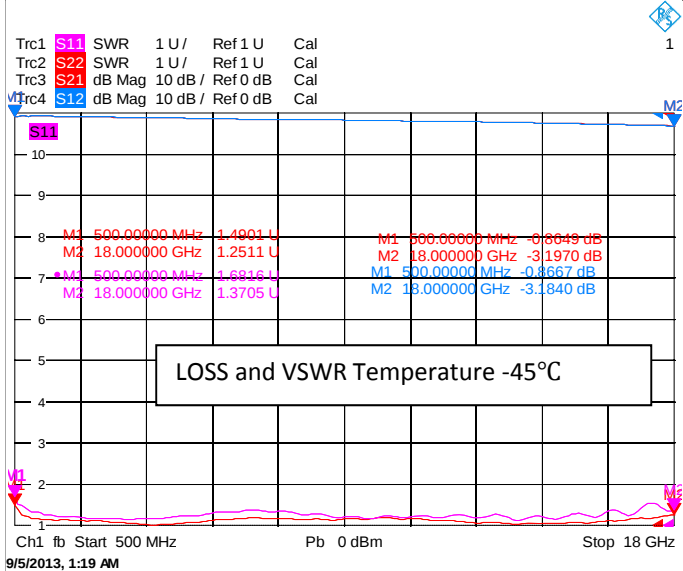
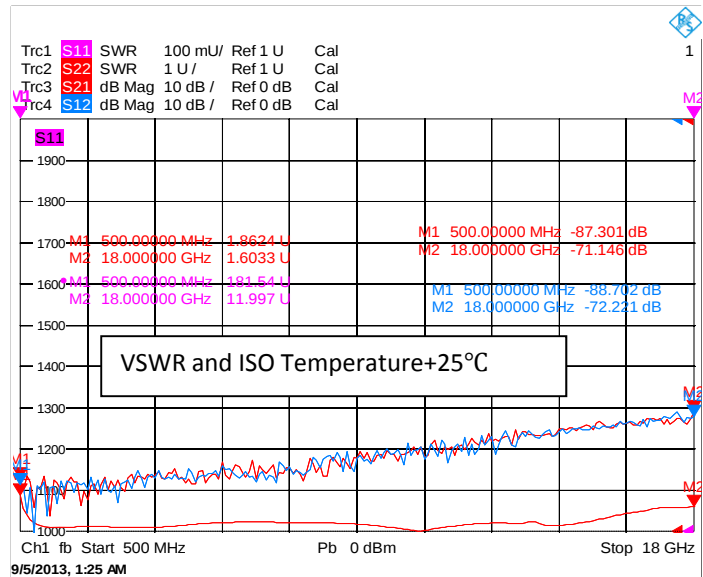
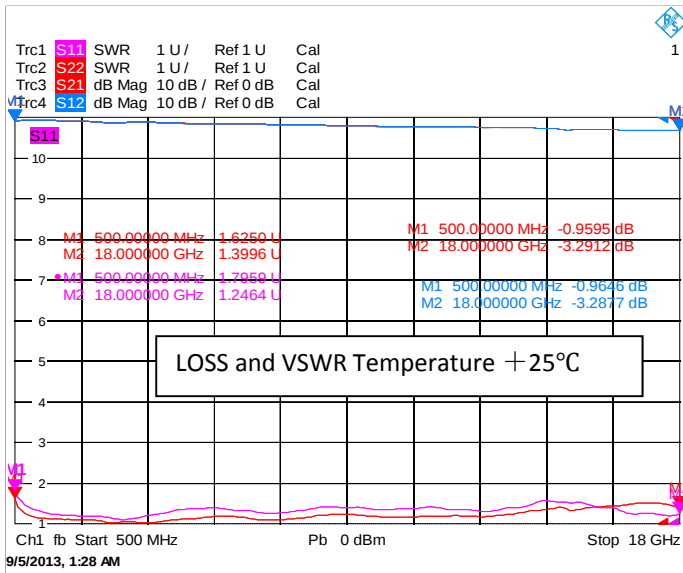


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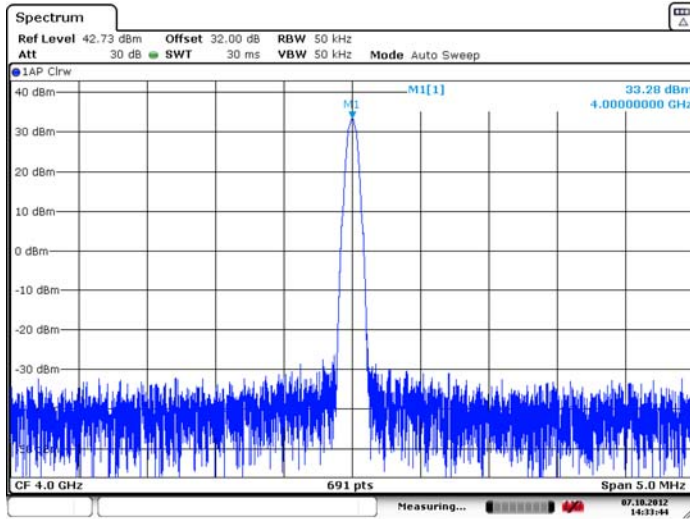


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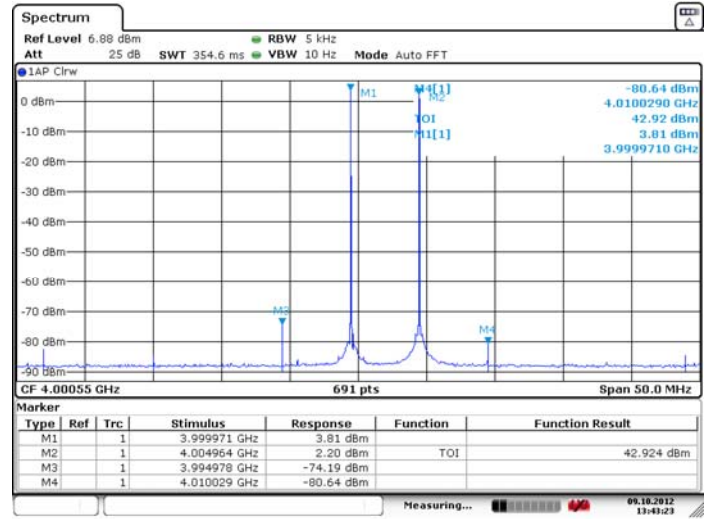
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1dB Compression Point

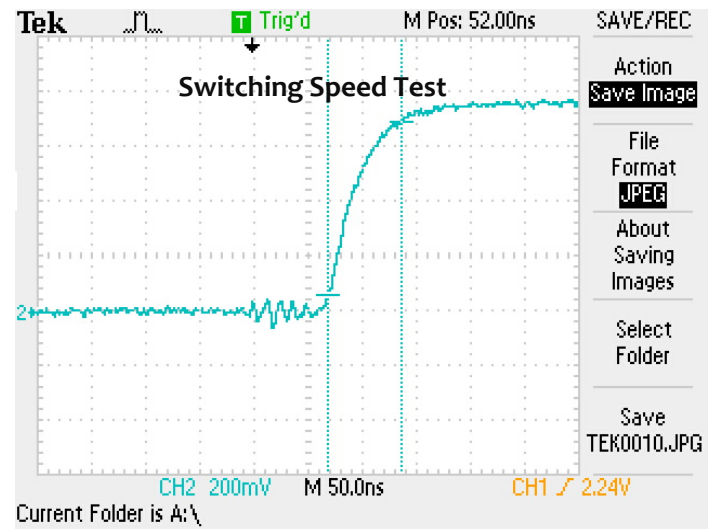
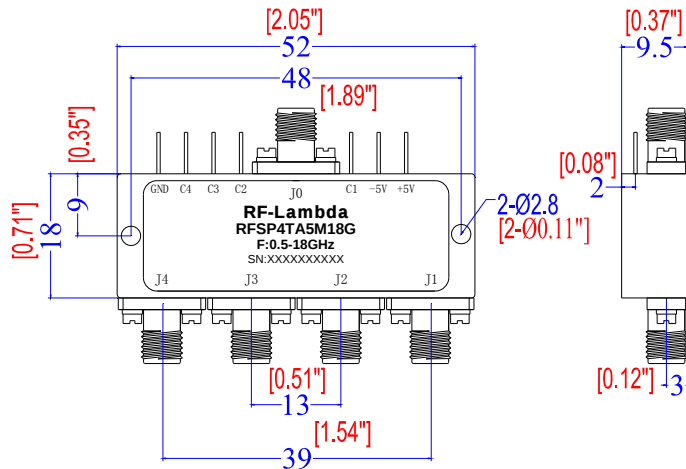


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IP3 – INPUT IP3 Point



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