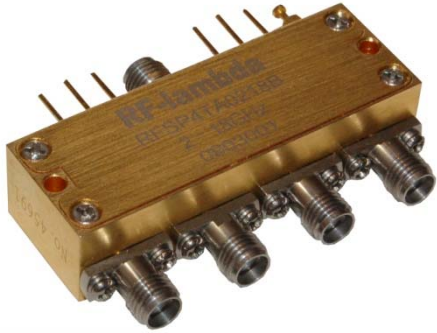




## Absorptive 8-12GHz Coaxial SP4T



### Features

- Wide Band Operation 8-12GHz
- 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

Electrical Specifications, TA = +25° C, With Vdd = +5V, Vss = -5V & VCTL = 0/ +5V

Parameter	Frequency (GHz)	Min	Type	Max	Units
Insertion Loss	8~12		1.8	2	dB
Isolation	8~12		80		dB
VSWR (On States)	8~12		1.3	1.5	
Input Power For 1dB Compression	8~12		24		dBm
Input Third Order Intercept Point (Input Power= +8dBm Each one)	8~12		42		dBm
Switching Characteristics			20	25	
tRISE, tFALL (10/90% RF)	8~12				ns
tON/tOFF (10/90% RF)			20	25	
Impedance(Ohms)		50			Oh
Idd /Iss		160/50			mA
Weight		150			g
Input / Output Connector		SMA-Female/SMA-Female			
Finishing		Gold Plating			
Material		Brass or Aluminum			



# RF-LAMBDA

The power beyond expectations

RFSP4TA0812G

Absorptive Coaxial Single Pole Four Throw Switch 8-12GHz

Control Input TTL				Signal Path State
C4	C3	C2	C1	
1	1	1	0	Jo-J1
1	1	0	1	Jo-J2
1	0	1	1	Jo-J3
0	1	1	1	Jo-J4

Control Pin Customization available upon request

Absolute Maximum Ratings	
Biasing	+/-5V
TTL Control Voltage	+5V/0V
Input RF power	+30dBm
Storage Temp. (C°)	-50 ~ +125

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

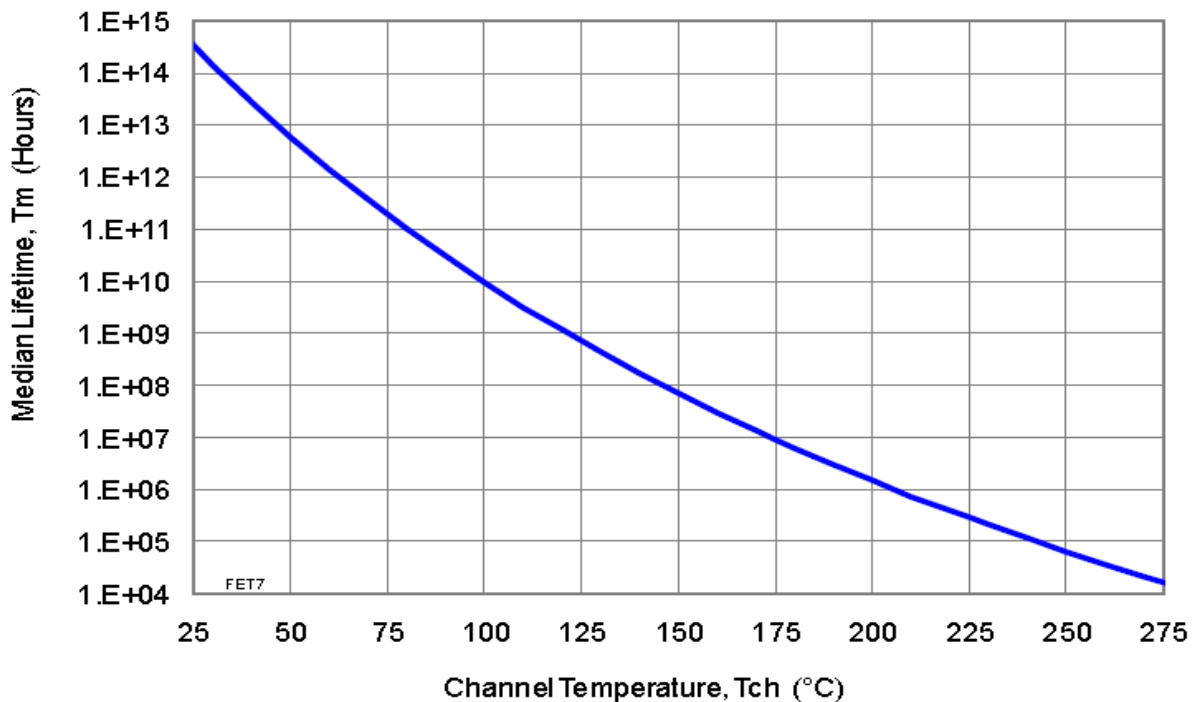
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

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
RFSP4TA0812G	EAR99	SP4T 8-12GHz PIN Diode Switch



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

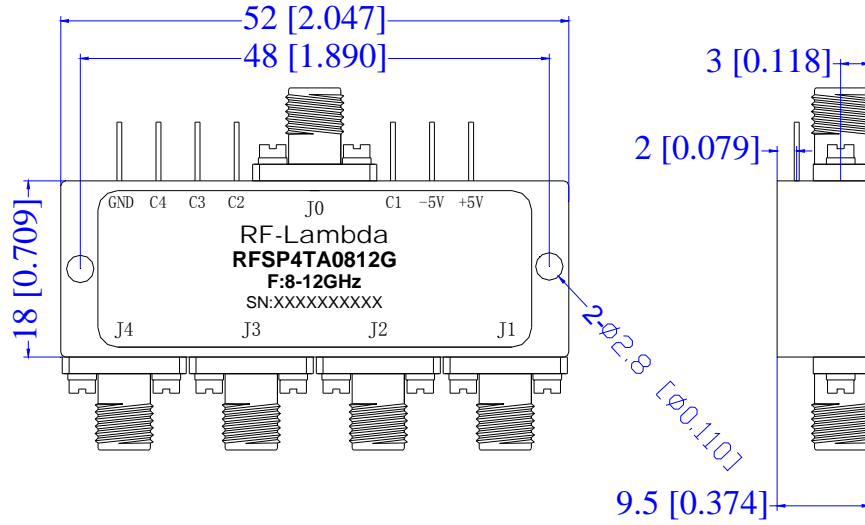




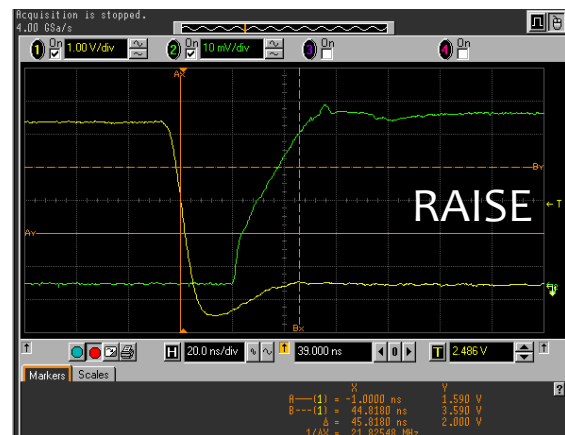
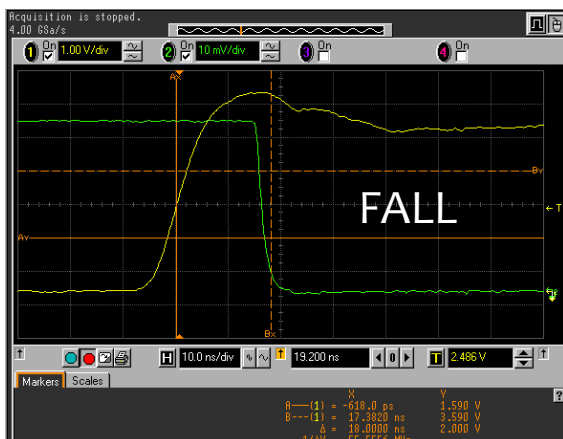
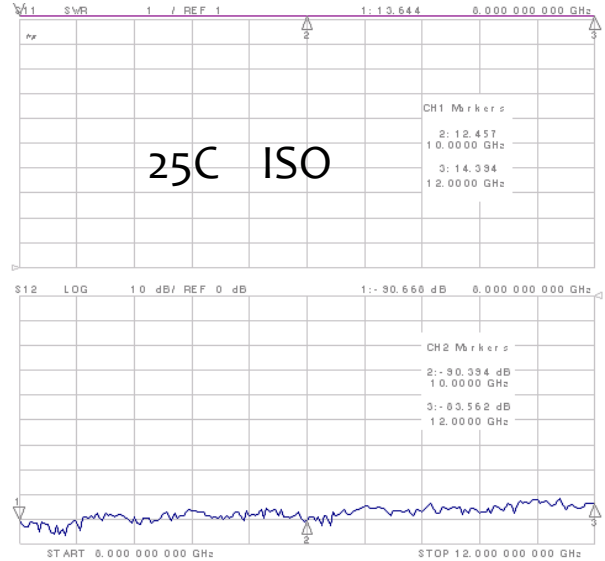
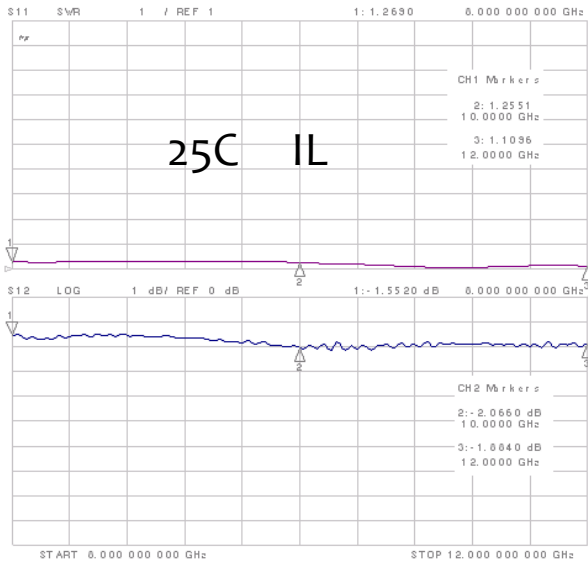
# RF-LAMBDA

The power beyond expectations

RFSP4TA0812G



[X401]



Absorptive Coaxial Single Pole Four Throw Switch 8-12GHz

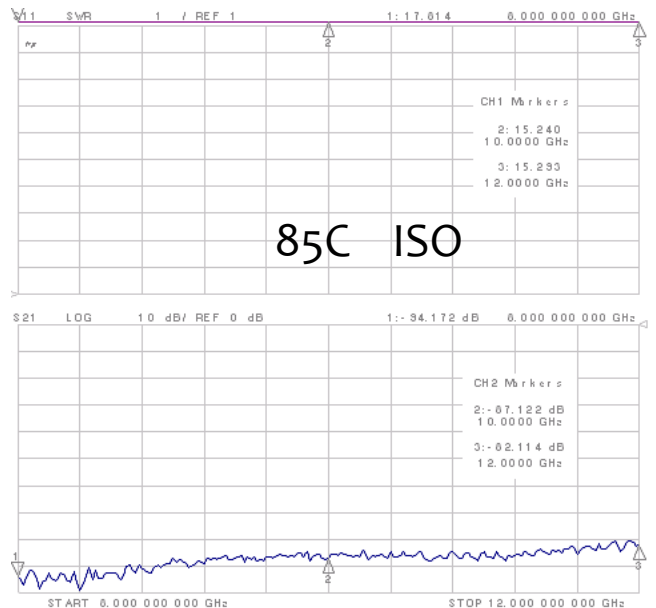
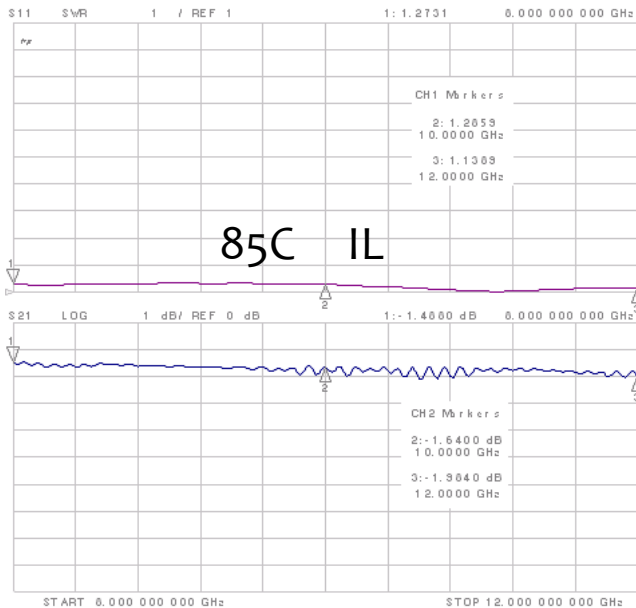
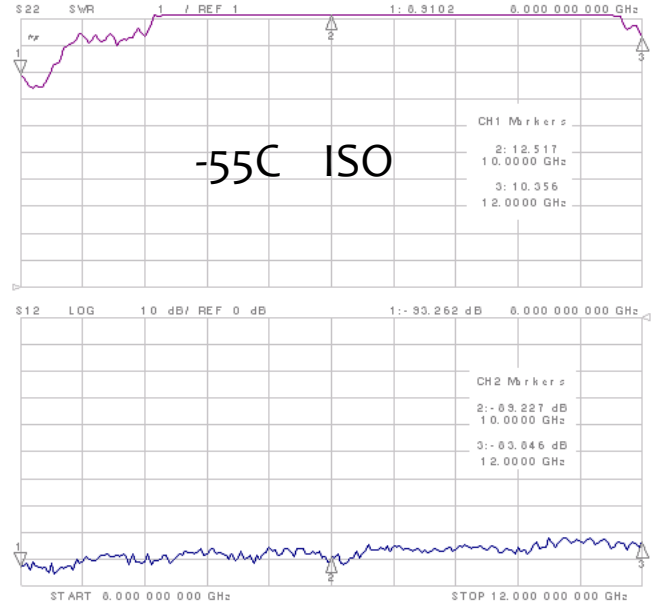
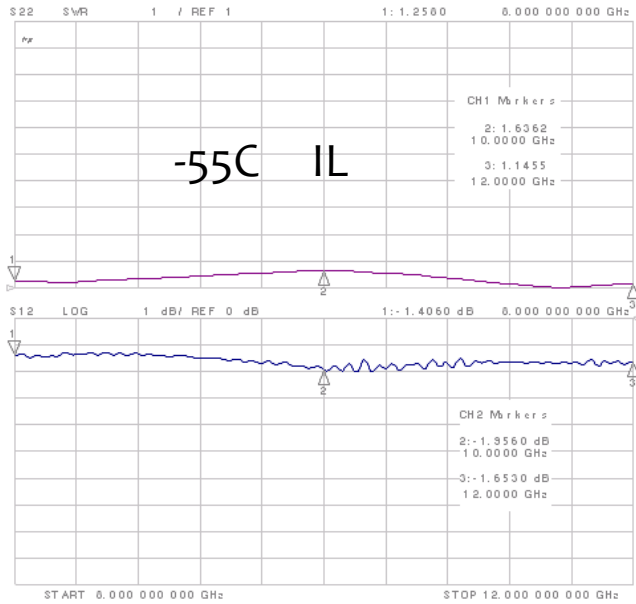


# RF-LAMBDA

The power beyond expectations

RFSP4TA0812G

Absorptive Coaxial Single Pole Four Throw Switch 8-12GHz



## Important Notice

The information contained herein is believed to be reliable. RF-Lambda makes no warranties regarding the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for any of the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for RF-Lambda products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information.

RF-Lambda products are not warranted or authorized for use as critical components in medical, life-saving, or life sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.