



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, $T_A = +25^\circ\text{C}$, With $V_{dd} = +5\text{V}$, $V_{ss} = -5\text{V}$ & $V_{CTL} = 0/+5\text{V}$

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	8~12		42		dBm
(Input Power= +8dBm Each one)					
Switching Characteristics	8~12		20	25	ns
tRISE, tFALL (10/90% RF)			20	25	
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				



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The power beyond expectations

RFSP4TA0812G

Control Input TTL				Signal Path State
C4	C3	C2	C1	
1	1	1	0	J0-J1
1	1	0	1	J0-J2
1	0	1	1	J0-J3
0	1	1	1	J0-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

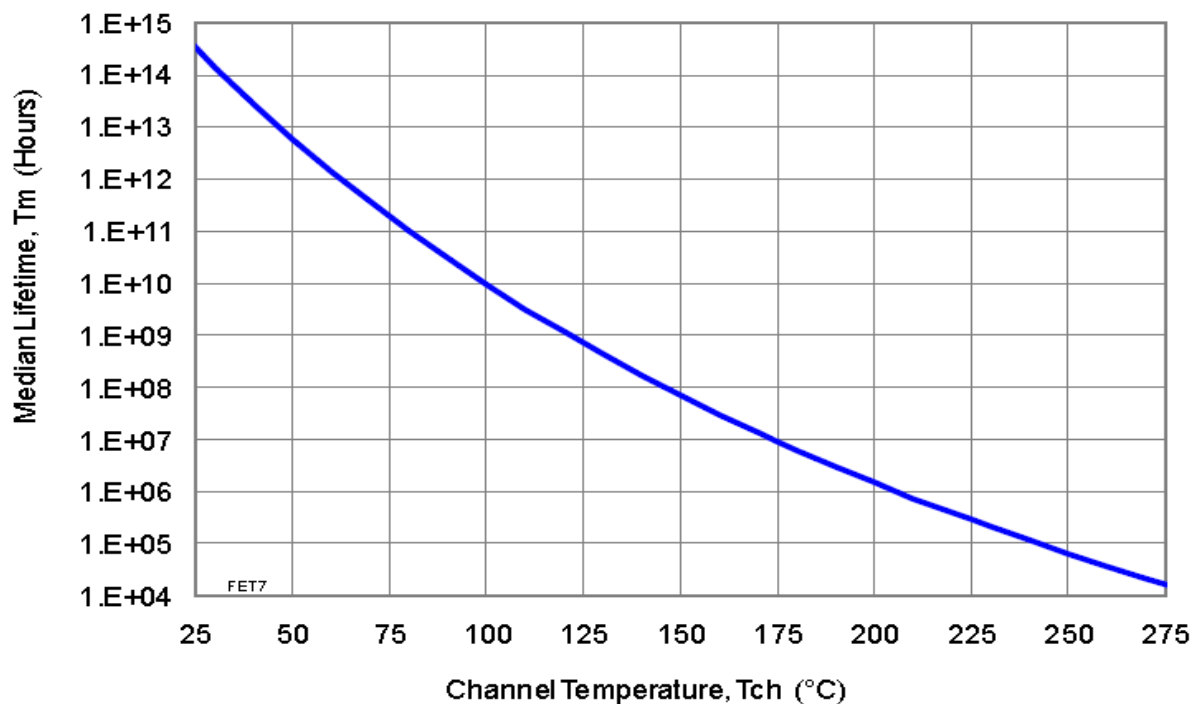
Biasing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

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)



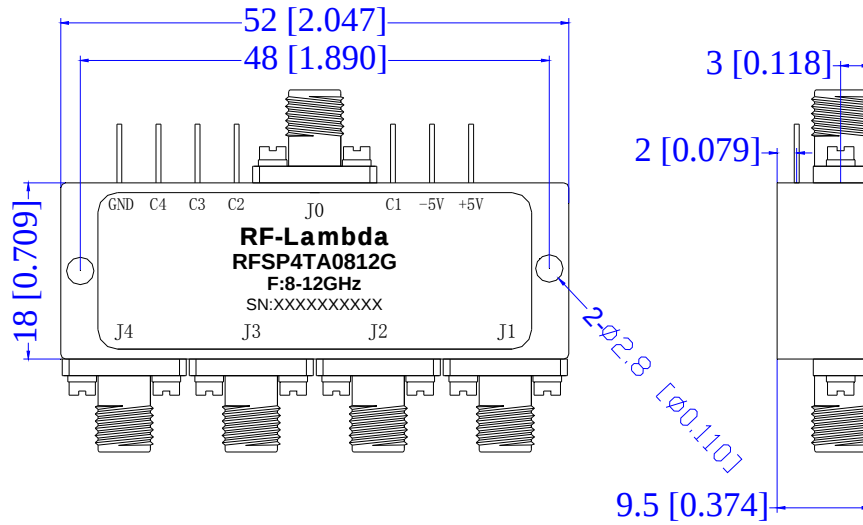
Absorptive Coaxial Single Pole Four Throw Switch 8-12GHz



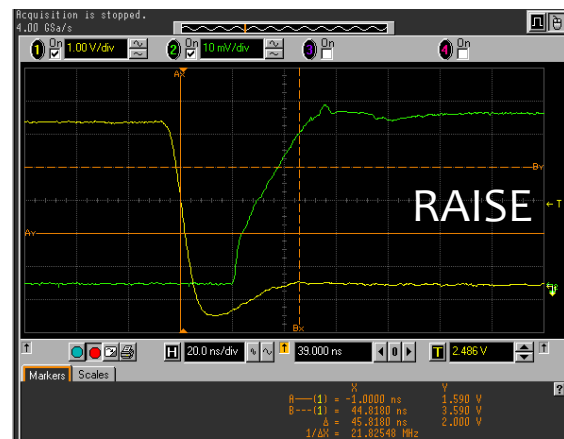
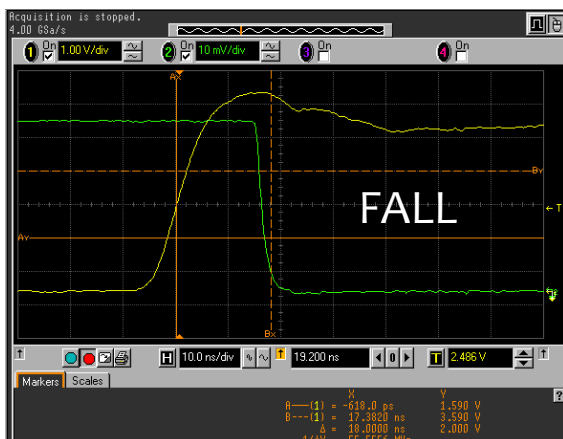
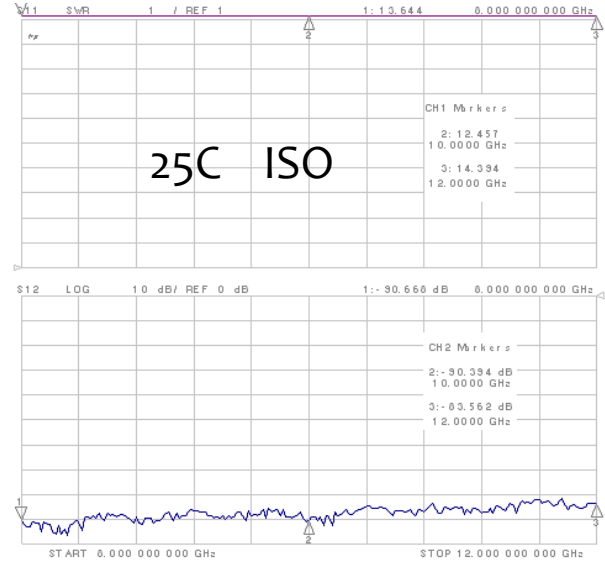
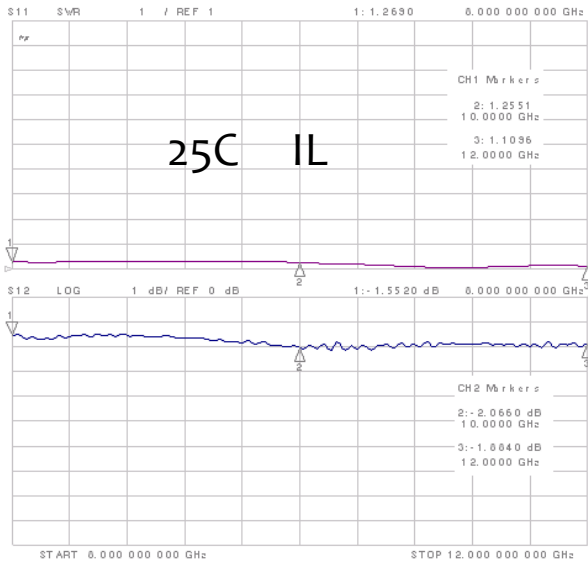
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The power beyond expectations

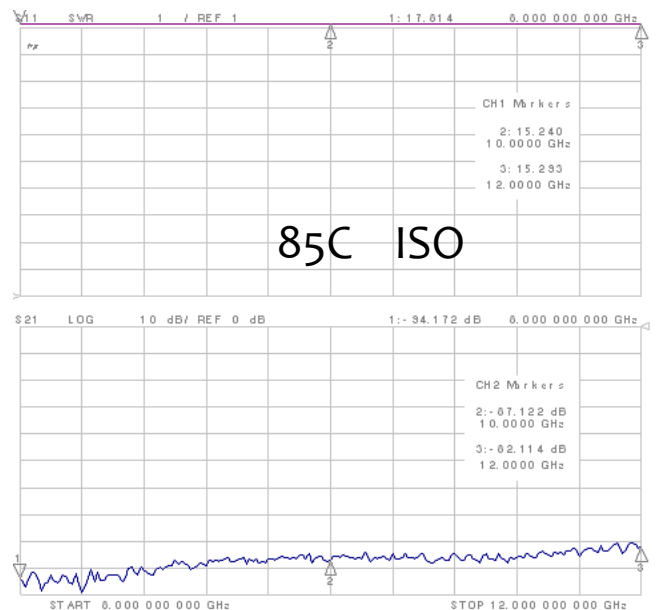
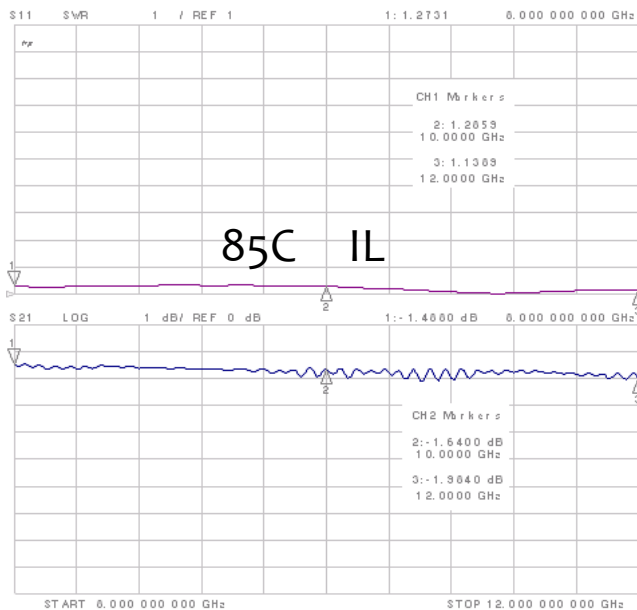
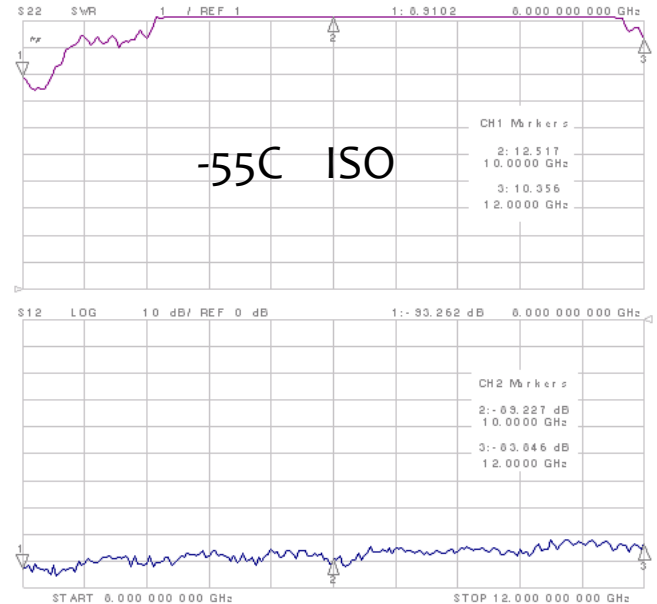
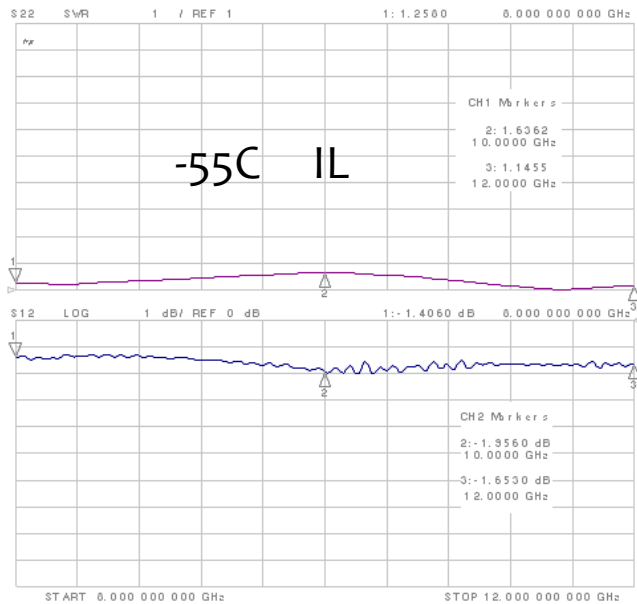
RFSP4TA0812G



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Absorptive Coaxial Single Pole Four Throw Switch 8-12GHz



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