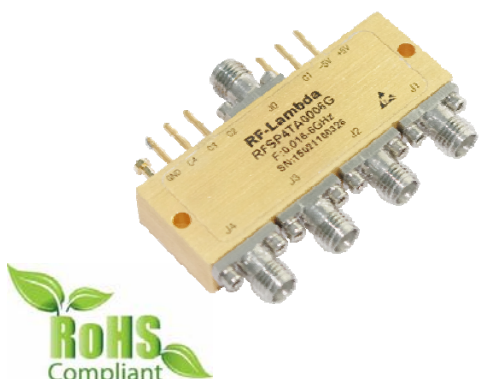




40W Reflective DC-6GHz Coaxial SP4T Switch



Features

- Wide Band Operation DC-6GHz
- High Power Handle Capability up to 40W 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

Description	PN: RFSP4TRDC06G						
	SPDT Reflective Switch						
	High Power Hot Switching						
Parameters	Min	Type	Max	Min	Type	Max	Units
Frequency Range	DC	0.05	0.10	0.50	3.00	6.00	GHz
Insertion Loss		0.85			0.85		dB
Insertion Loss Temperature Coefficient		0.003			0.003		dB/°C
Insertion Loss Over Temp (-45°C~+85°C)		0.10	0.15		0.20	0.30	±dB
Isolation		70			70		dB
Noise Figure	3.0	3.5	4.0	0.4	0.5	1.0	dB
Input VSWR			2			2	
Output VSWR (ON State)			2			2	
Output VSWR (OFF State)			2			2	
P 0.1dB compression	40	41	42	46	46	46	dBm
Power Dissipation (CW)	40W*(F_GHz/0.1GHz)				40		W
IM3		-48			-48		dBc
Switching Speed		50			50		ns
Input Max			43.00			46.50	dBm
Weight	25						g
Impedance	50						Ohms
Biasing (+5V)	100						mA
RF Port DC Leakage	OFF - -27V ; ON -3.5V (No DC Block Capacitor) Can be added to block DC						V
Input /Output Connector	SMA-Female						
Finishing	Gold plating						
Material	Aluminum/copper						
Control Logic TTL	1	J0-J1					
	0	J0-J2					



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RFSP4TRDC06G

Absolute Maximum Ratings	
Biasing	+5 V
TTL Control Voltage	+5V/oV
Input RF power	40w
Storage Temperature (C°)	-50 ~ +125

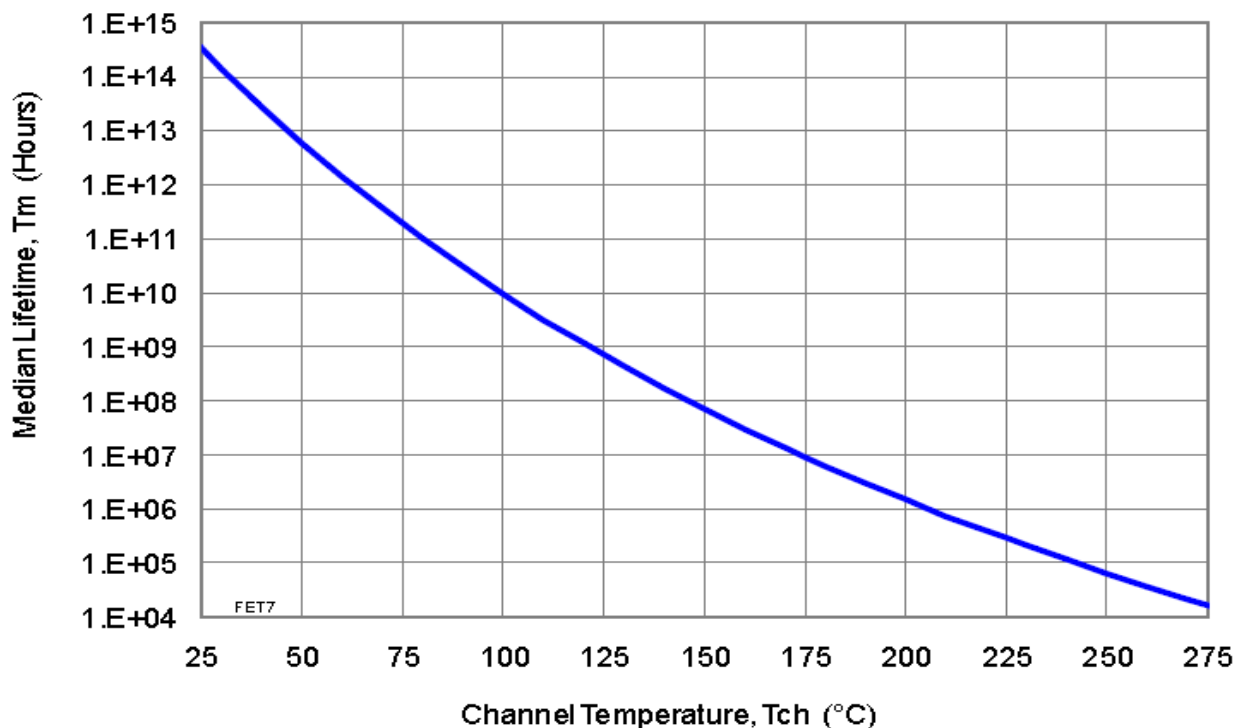
Biasing Up Procedure	
Step 1	GND
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	TTL
Step 2	+5V
Step 3	GND

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
RFSP4TRDCo6G	EAR99	SP4T DC-6GHz Switch



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



40W Reflective Coaxial Single Pole Four Throw Switch DC-6GHz

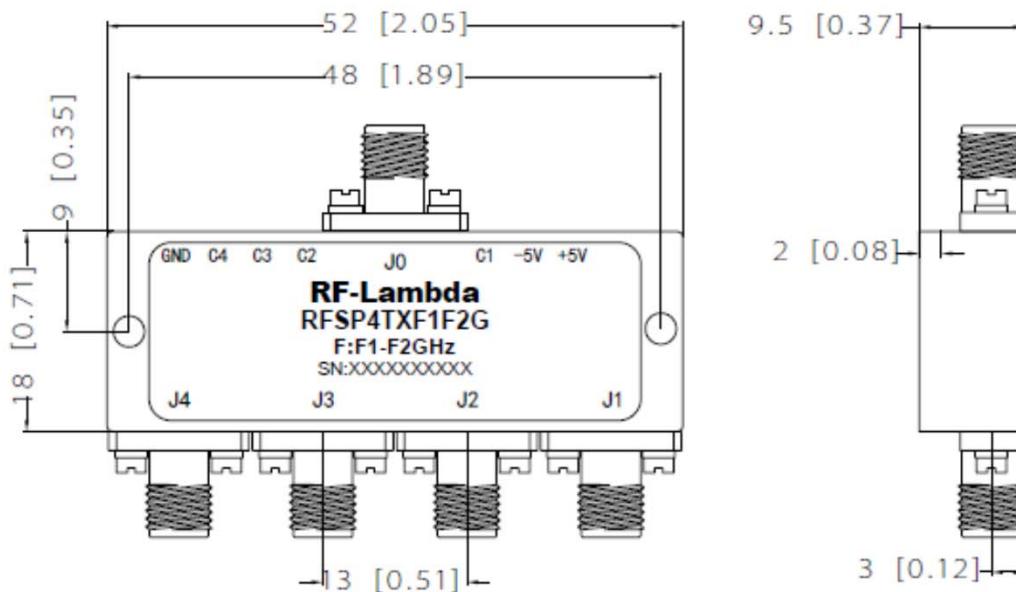


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RFSP4TRDC06G

Switching Speed Test



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RF-LAMBDA INC. www.rflambda.com

Sales: sales@rflambda.com Technical: support@rflambda.com

40W Reflective Coaxial Single Pole Four Throw Switch DC-6GHz