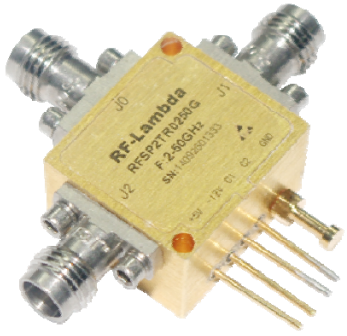
Reflective 30-80GHz Coaxial SP2T Switch



Features

- Wide Band Operation 30-80GHz
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Temperature Range -45°C~+85°C
- Customization available upon request

RoHS Compliant

Electrical Specifications, TA = +25° C, With Vdd = +5V, Vss = -12V & VCTL = 0/ +5V

Description	PN: RFSP2TA3080G SPDT Reflective Switch Low Power Cold Switching			
Parameters	Min	Type	Max	Units
Frequency Range	30	50	80	GHz
Insertion Loss		3		dB
Insertion Loss Temperature Coefficient		0.003		dB/°C
Insertion Loss Over Temp (-45°C~+85°C)		0.10	0.15	±dB
Isolation		>40		dB
Return Loss		14		dB
Input VSWR			1.5	
Output VSWR			1.5	
Compression Point P1dB				dBm
Power Dissipation (CW)				W
IM3				dBc
Switching Speed				ns
Input Max				dBm
Weight				g
Impedance	50			Ohms
Biasing (+5V/-12V)				mA
Input /Output Connector				
Finishing	Gold plating			
Material	copper			

Control Logic TTL	C2	C1	Status
	1	0	J0-J1
	0	1	J0-J2

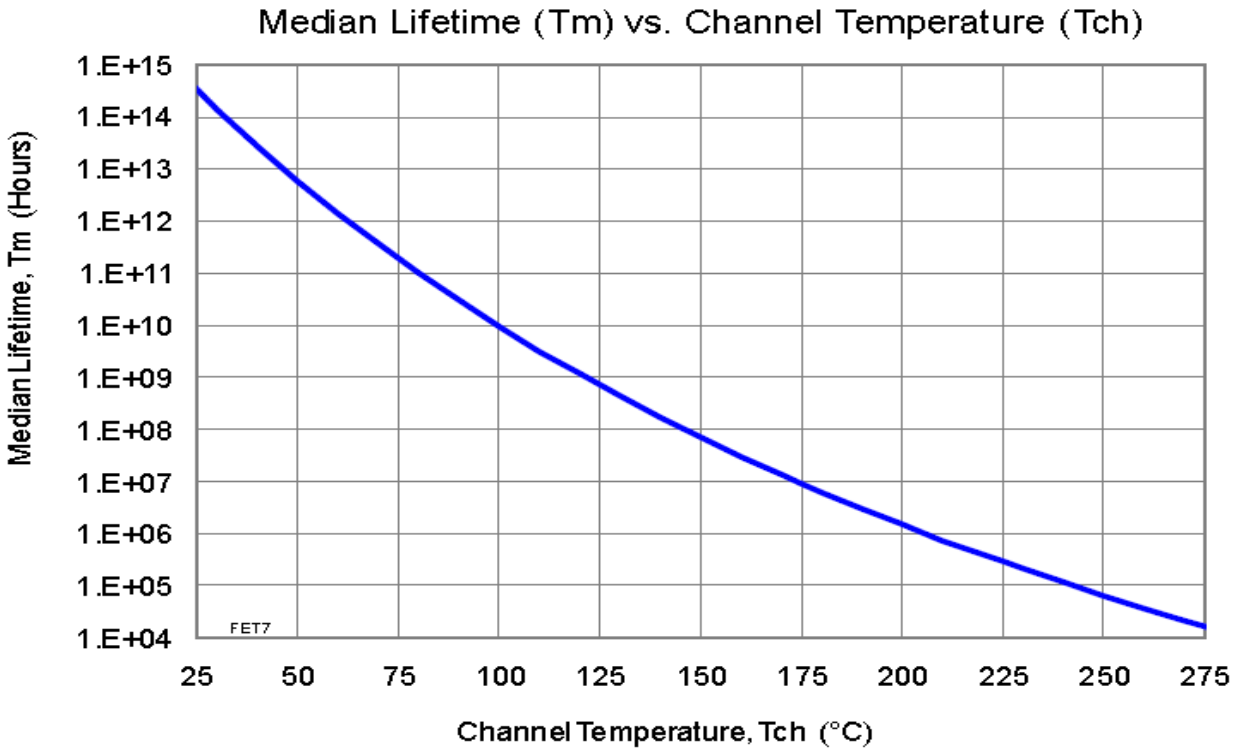
Reflective Coaxial Single Pole Double Throw Switch 30-80GHz

Absolute Maximum Ratings	
Biasing	+5V/-12V
TTL Control Voltage	+5V/0V
Input RF power	+23dBm
Storage Temperature (C°)	-50 ~ +125

Biasing Up Procedure	
Step 1	-12V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-12V
Step 3	TTL

Environment specifications	
Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft (Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment)
Vibration	35g rms (15 degree 2KHz)
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc

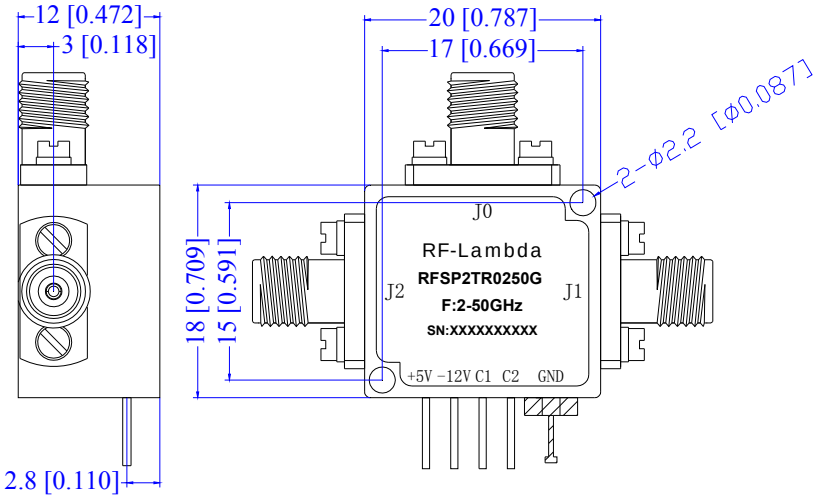
Ordering Information		
Part No	ECCN	Description
RFSP2TA3080G	EAR99	SP2T 30-80GHz PIN Diode Switch



Reflective Coaxial Single Pole Double Throw Switch 30-80GHz

Outline Drawing:

All Dimensions in mm (inches)



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