



RF-LAMBDA

The power beyond expectations

RFSP2TR0220G

Reflective 2-20.0GHz Coaxial SP2T Switch



Features

- Wide Band Operation 2.0-20.0GHz
- 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

Specification	Reflective type		
	PN: RFSP2TR0220G		
	Low	Med	High
Frequency Range(GHz)	2	11	20
Insertion Loss(dB)	2.0dB typ. @2GHz	2.5dB typ. @11GHz	3.2dB typ. @20GHz
VSWR	2	1.8	2
Isolation(dB)	70	70	60
Switching Speed(ns)	150	200	250
P1dB Power (dBm)		31.5	
Absolutely max. Power (W)			5W or higher upon request.
Weight (g)	25		
IIP3 (Input IP3) dBm	40		
Impedance(Ohms)	50Ω		
Power Supply (V)	+/-5 V DC		
Current(mA)	80mA (+5) 30mA (-5V)		
Input Connector	SMA-Female		
Output Connector	SMA-Female		
Finishing	Gold Plating		
Material	Brass		
Seal	Hermetically Sealed		
Control (TTL Driver Included)	TTL Control		
	C2	C1	Status
	0	0	OFF
	0	1	Jo-J1
	1	0	Jo-J2
	1	1	OFF

Reflective Coaxial Single Pole Double Throw Switch 2-20.0GHz



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Absolute Maximum Ratings	
Biasing	+/-5 V
TTL Control Voltage	+5V/oV
Input RF power	20dBm
Storage Temperature (C°)	-50 ~ +125

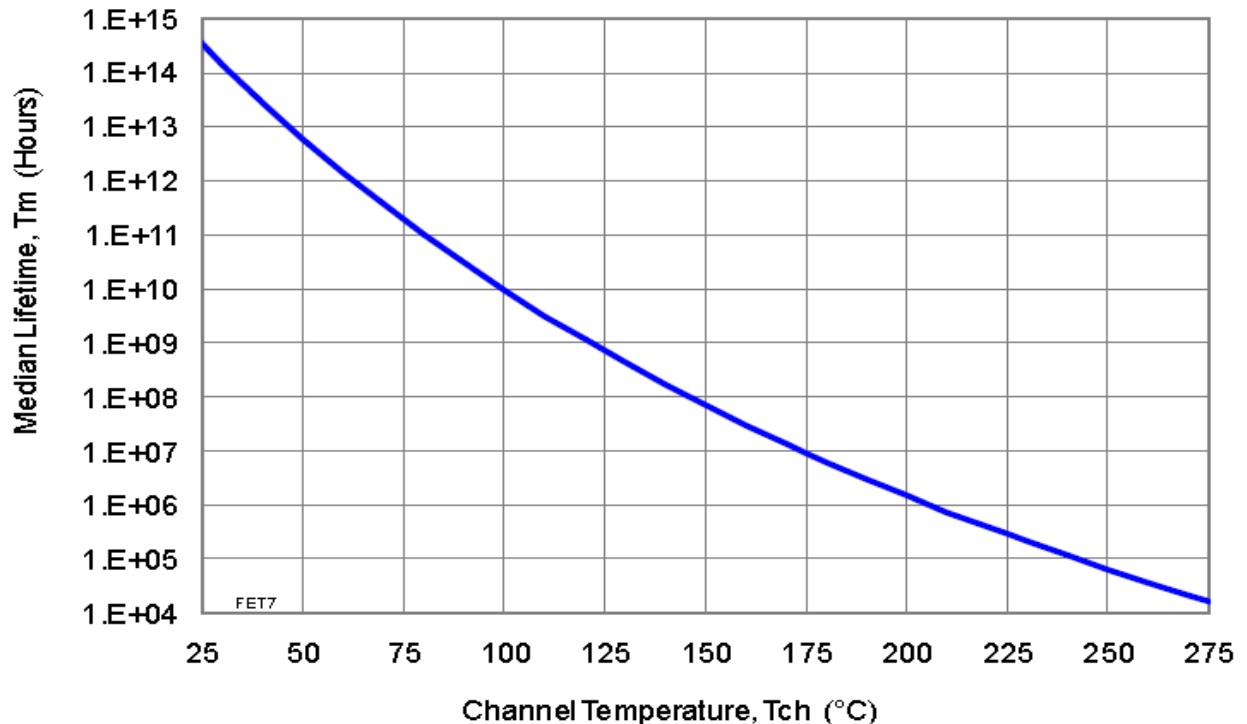
Biasing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

Environment specifications	
Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft (Controlled environment)
Vibration	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
RFSP2TR0220G	EAR99	SP2T 2-20GHz PIN Diode Switch



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



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