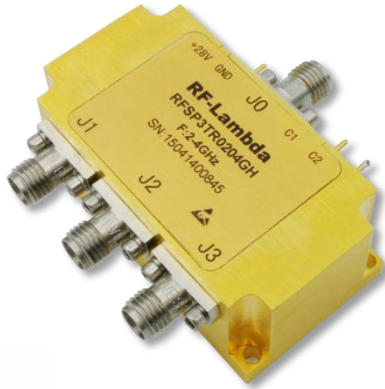




Reflective 2-4GHz Coaxial SP3T Switch



Features

- Wide Band Operation 2-4GHz
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Temperature Range -45°C~+85°C
- Customization available upon request
- Hermetically sealed package up to 60,000ft available upon request.

Electrical Specifications, TA = +25° C, With Vdd = +28V, & VCTL = 0/ +5V

Description	PN: RFSP3TR0204GH			
	SP3T Reflective Switch			
	Low Power Cold Switching			
Parameters	Min	Typ.	Max	Units
Frequency Range	2~4			GHz
Insertion Loss		2.3	2.5	dB
Insertion Loss Temperature Coefficient		0.01		dB/°C
Isolation	50	55		dB
Input VSWR		1.8	2	ratio
Output VSWR (ON State)		1.8	2	ratio
Output VSWR (OFF State)	15			ratio
Power Dissipation (CW)		22		W
1dB Compression P1dB		46		dBm
IM3		55		dBc
Switching Speed			1	us
Weight	2.3			ounces
Impedance	50			Ω
Biasing(+28V)	120			mA
Input /Output Connector	SMA-Female/SMA-Female (Standard)			
Finishing	Gold Plating			
Material	Aluminum			
Seal	Hermetically Sealed (optional)			

Reflective Coaxial Single Pole Three Throw Switch 2-4GHz



Absolute Maximum Ratings

Biassing	+28V
TTL Control Voltage	0~0.8V/2~5V
RF Input power	+47dBm
Operating Temperature(°C)	-45 ~ +85
Storage Temperature(°C)	-50 ~ +125

Ordering Information

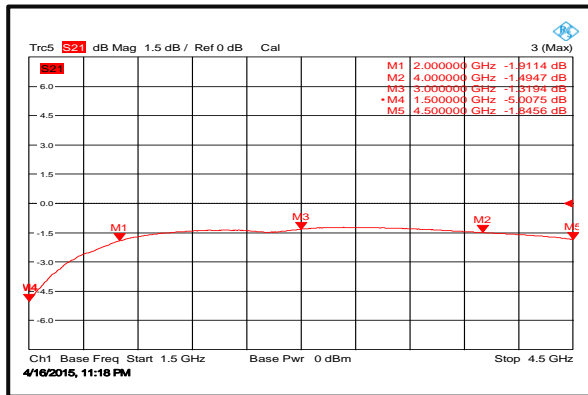
Part No	ECCN	Description
RFSP3TR0204GH	EAR99	SP3T 2-4GHz PIN Diode Switch

Environment specifications

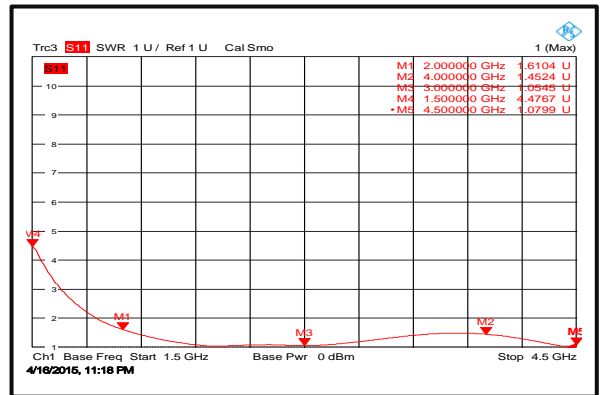
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°C
Shock	20G for 11msc half sin wave, 3 axis both directions

Typical performance plots

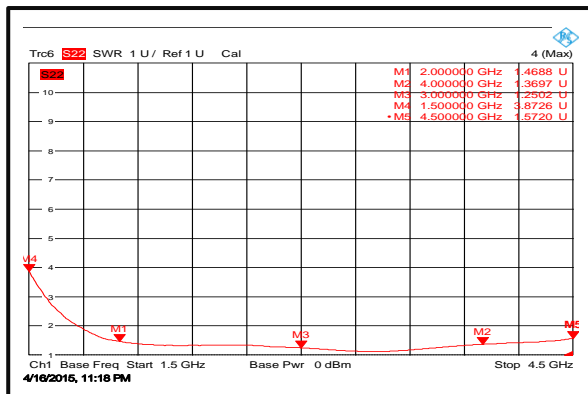
Insertion Loss



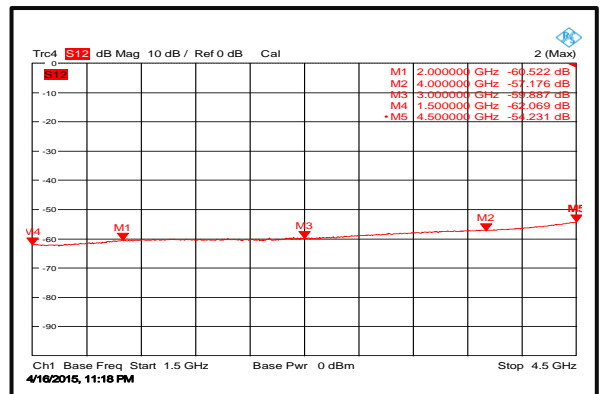
Input VSWR



Output VSWR



Isolation



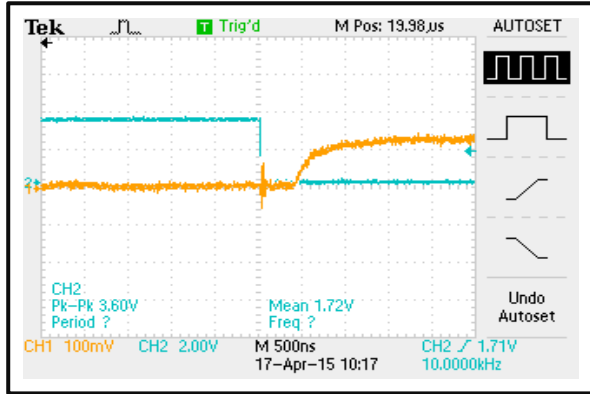


RF-LAMBDA

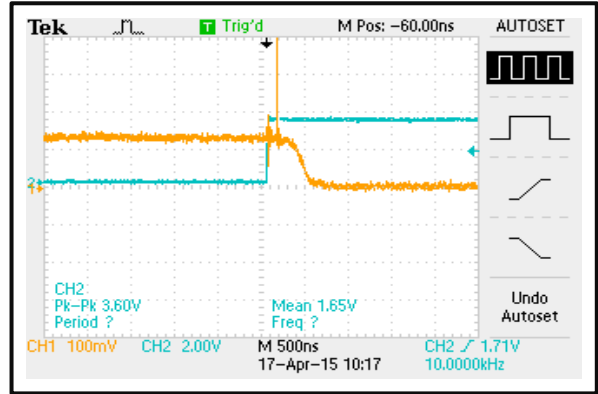
LEADER OF BROADBAND SOLUTIONS

RFSP3TR0204GH

Switching Speed



Switching Speed

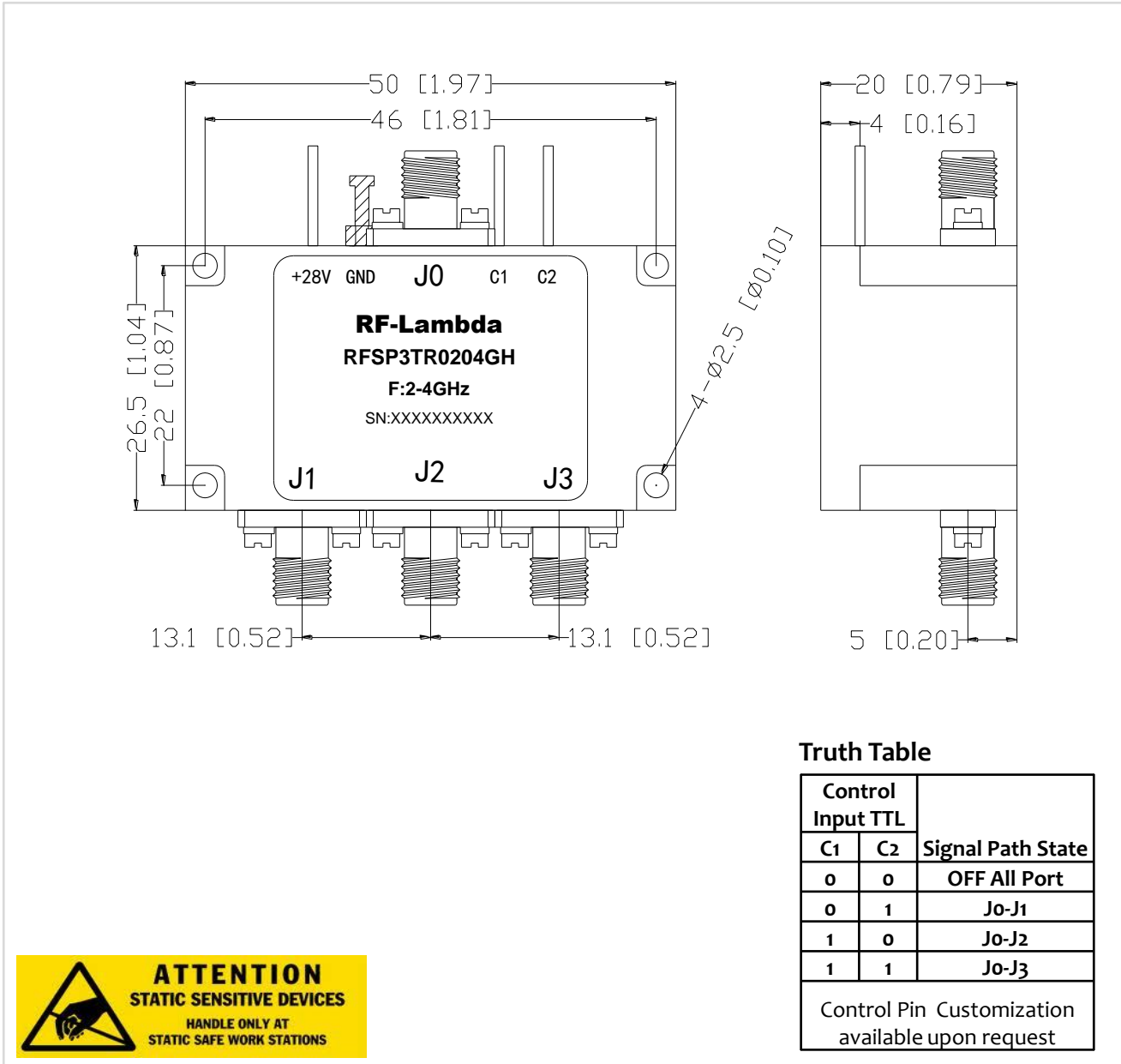


Reflective Coaxial Single Pole Three Throw Switch 2-4GHz



Outline Drawing:

All Dimensions in mm (inches)



Truth Table

Control Input TTL		Signal Path State
C1	C2	
0	0	OFF All Port
0	1	J0-J1
1	0	J0-J2
1	1	J0-J3

Control Pin Customization available upon request

Reflective Coaxial Single Pole Three Throw Switch 2-4GHz

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