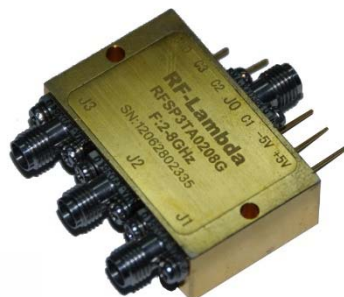




Reflective 1-2GHz Coaxial SP3T Switch



Features

- Wide Band Operation 1-2GHz
- 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 = +5V, Vss = -5V & VCTL = 0/ +5V

Description	PN: RFSP3TR0102G			
	SP3T Reflective Switch			
	High Power Cold Switching			
Parameters	Min	Typ.	Max	Units
Frequency Range	1	1.5	2	GHz
Insertion Loss	0.8	1	1.2	dB
Insertion Loss Temperature Coefficient		0.003		dB/°C
Isolation	80	85		dB
Input VSWR		1.4	1.5	ratio
Output VSWR (ON State)		1.4	1.5	ratio
Output VSWR (OFF State)		6		ratio
Power Dissipation (CW)	1		1W Standard 200W upon request	W
IM3		40		dBc
1dB Compression P1dB		30		dBm
Switching Speed			50	ns
Weight	50			g
Impedance	50			Ω
Biasing(+5V/-5V)	120/30			mA
Input /Output Connector	SMA-Female/SMA-Female(Standard)			
Finishing	Gold Plating			
Material	Aluminum			
Seal	Hermetically Sealed (optional)			



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Absolute Maximum Ratings

Biasing	+5V/-5V (low power only)
TTL Control Voltage	+5V/0V
RF Input power	+30dBm Standard up to 200W upon request
Storage Temperature(C°)	-45 ~ +85
Operating Temperature(C°)	-50 ~ +125

Ordering Information

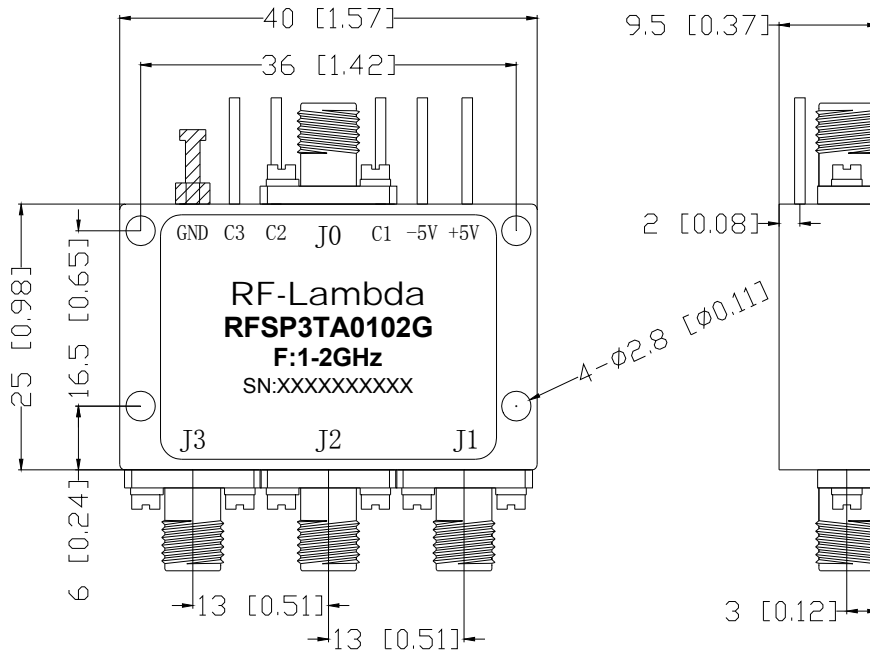
Part No	ECCN	Description
RFSP3TR0102G	EAR99	SP3T 1-2GHz PIN Diode Switch

Environment specifications

Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) - Standard
	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

Outline Drawing:

All Dimensions in mm (inches)



Truth Table

Control Input TTL			Signal Path State
C3	C2	C1	
1	1	0	Jo-J1
1	0	1	Jo-J2
0	1	1	Jo-J3
Control Pin Customization available upon request			





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Reflective Coaxial Single Pole Throw Switch 1-2GHz