



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFSP5TA0005M

Absorptive 0.02-0.5GHz Coaxial SP5T Switch

Features

- Wide Band Operation 0.02-0.5GHz
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Customization available upon request
- Hermetically sealed package up to 60,000ft available upon request.



Electrical Specifications, TA = +25° C, With Biasing +5V & -5V Control 5V TTL= 0/ +5V

Description	PN: RFSP5TA0005M			
	SP5T Absorptive Switch			
	Low Power Cold Switching			
Parameters	Min	Type	Max	Units
Frequency Range	0.02-0.5			GHz
Insertion Loss			1.6	dB
Insertion Loss Temperature Coefficient		0.003		dB/°C
Isolation	80			dB
Input VSWR			1.5	
Output VSWR			1.5	
RF Input power	30			dBm
DC Power Dissipation		0.3		W
0.1dB Compression P _{0.1dB}		30		dBm
IIP ₃		55		dBm
Switching Speed			50	ns
Weight	1.06			Ounces
Impedance	50			Ω
Biasing(+5V/-5V)	200/50			mA
Input /Output Connector	SMA-Female			
Finishing	Gold Plating			
Material	Aluminum			
Seal	Hermetically Sealed (optional)			

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AbsorptiveCoaxial Single Pole Five Throw Switch 0.02-0.5GHz



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Absolute Maximum Ratings

Biasing	+5V±10%/-5V±10%
TTL Control Voltage	0~0.8V/2~5V
Operating Temperature(°C)	-45 ~ +85
Storage Temperature(°C)	-50 ~ +125

Ordering Information

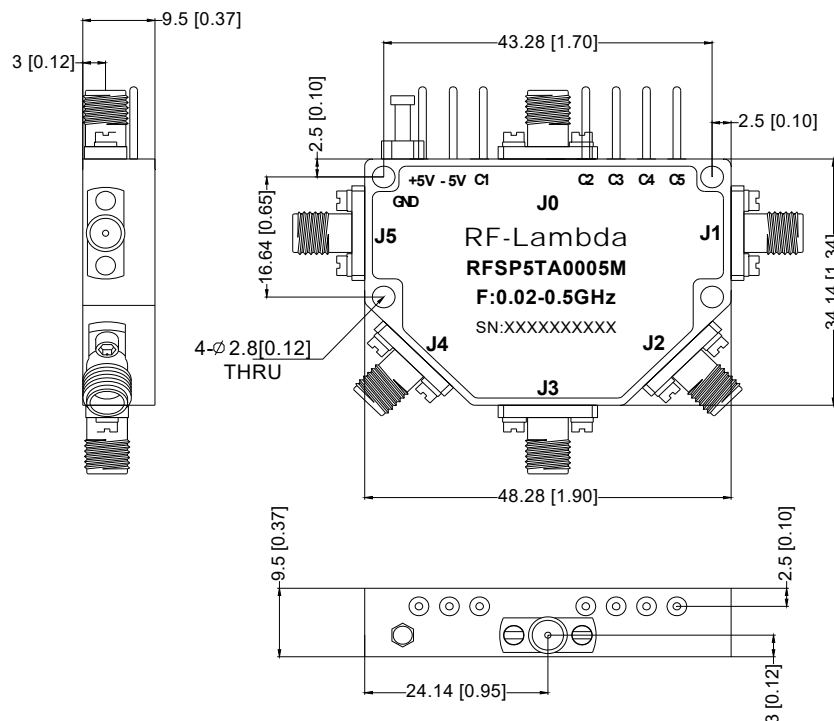
Part No	ECCN	Description
RFSP5TA0005M	EAR99	SP5T 0.02-0.5Ghz PIN Diode Switch

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

Outline Drawing:

All Dimensions in mm (inches)



True Table

Control Input TTL					Signal Path State
C5	C4	C3	C2	C1	
1	1	1	1	0	Jo-J1
1	1	1	0	1	Jo-J2
1	1	0	1	1	Jo-J3
1	0	1	1	1	Jo-J4
0	1	1	1	1	Jo-J5

Control Pin Customization available upon request



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