



RF-LAMBDA

LEADER OF BROADBAND SOLUTIONS

RFSP2TA5M12GA

Absorptive 0.5-12GHz Coaxial SP2T Switch

Features

- Ultra Wide Band Operation 0.5-12GHz
- LVTTTL 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/ +3.3V

Description	PN: RFSP2TA5M12GA						
	SP2T Absorptive Switch						
	Low Power Cold Switching						
Parameters	Min	Type	Max	Min	Type	Max	Units
Frequency Range	0.5-6			6-12			GHz
Insertion Loss		1.5	1.8		2.2	2.5	dB
Insertion Loss Temperature Coefficient		0.003			0.003		dB/°C
Isolation	80			80			dB
Input VSWR		1.6	2		1.6	2	
Output VSWR		1.6	2		1.6	2	
RF Input power	30			30			dBm
Power Dissipation (CW)		0.3			0.3		W
0.1dB Compression Po.1dB		30			30		dB
IM3		40			40		dBc
IIP3		50			50		dBm
Switching Speed	100						ns
Weight	/						ounces
Impedance	50						Ω
Biasing(+5V/-5V)	80/50						mA
Input /Output Connector	SMA-Female/SMA-Female (Standard)						
Finishing	Gold Plating						
Material	Aluminum						
Seal	Hermetically Sealed (optional)						

Absorptive Coaxial Single Pole Double Throw Switch 0.5-12GHz



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Absolute Maximum Ratings

Biasing	+5V±10%/-5V±10%
LVTTTL Control Voltage	0~0.8V/2~3.3V
Operating Temperature(°C)	-45 ~ +85
Storage Temperature(°C)	-50 ~ +125

Ordering Information

Part No	ECCN	Description
RFSP2TA5M12GA	EAR99	SP2T 0.5-12GHz 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 35°C, 95%RH at 40°C
Shock	20G for 11msc half sin wave,3 axis both directions

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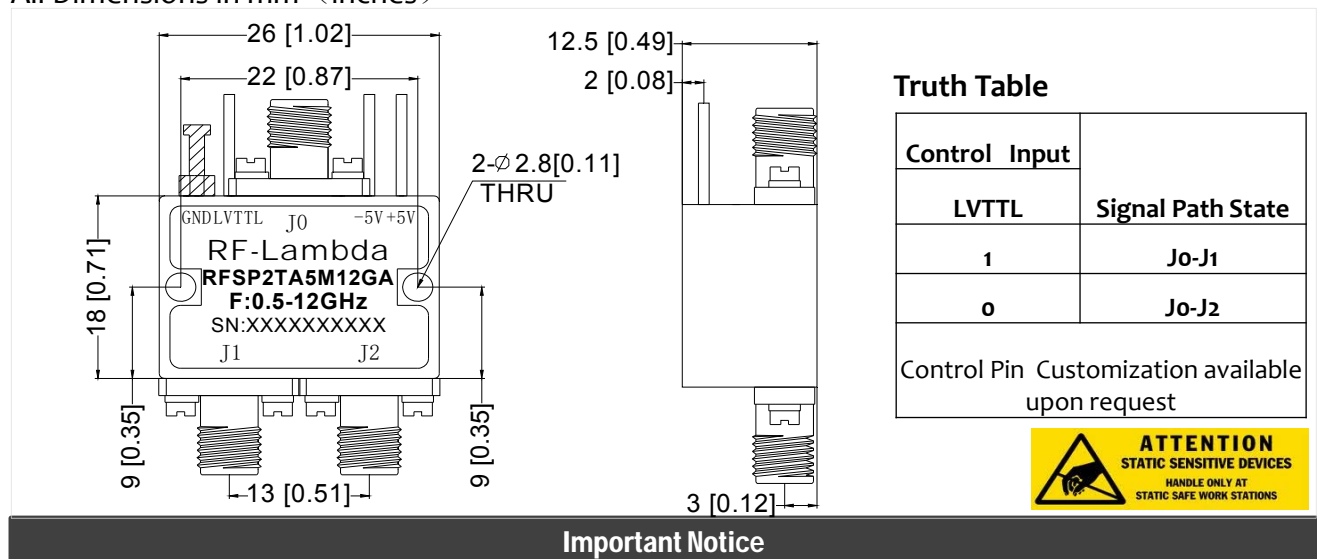
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Outline Drawing:

All Dimensions in mm (inches)



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