



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFSP5TR0208G-5W

Reflective Coaxial SP5T Switch 2 - 8GHz



Features

- Wide Band Operation 2-8GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Customization available upon request

Electrical Specifications, $T_A = +25^\circ \text{C}$, $V_{dd} = +5\text{V}$, $\text{TTL} = 0 / +5\text{V}$

Description	RFSP5TR0208G-5W			
	SP5T Reflection Switch			
	High Power Cold Switching			
Parameters	Min.	Typ.	Max.	Units
Frequency Range	2 - 8			GHz
Insertion Loss		1.5	2.0	dB
Insertion Loss Temperature Coefficient		0.003		dB/°C
Isolation	60	80		dB
Input VSWR		1.5	1.8	: 1
Output VSWR		1.5	1.8	: 1
RF Input Power			36	dBm
DC Power Dissipation		1.2		W
0.1dB Compression Point (Po.1dB)		36		dBm
IIP3		55		dBm
Switching Speed			100	ns
Weight	1.41			Ounces
Impedance	50			Ω
Bias Current (+5V)	250			mA
Input / Output Connectors	SMA-Female			
Finish	Gold Plated			
Material	Aluminum			
Sealing	Hermetically Sealed (Optional)			

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Absolute Maximum Ratings

Biasing	+5V±10%
TTL Control Voltage	0~0.8V/2.8~5V

Note: TTL pins cannot be connected to the negative voltage otherwise the internal driver will be damaged.

Ordering Information

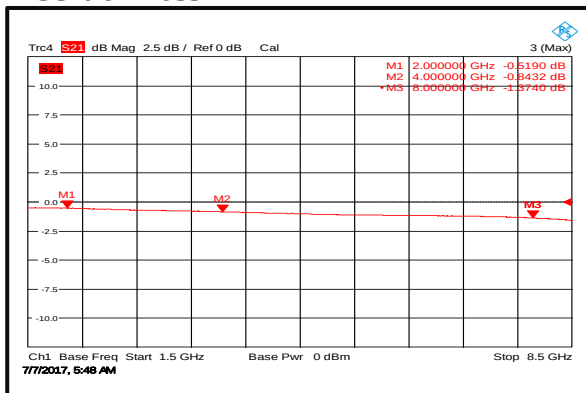
Part No.	ECCN	Description
RFSP5TR0208G-5W	EAR99	SP5T 2-8GHz PIN Diode Switch

Environmental Specifications

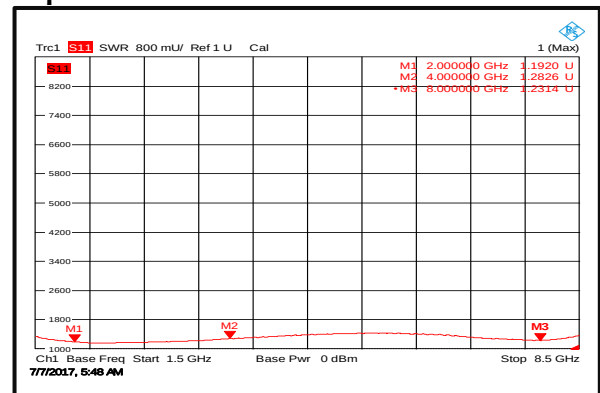
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c,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

Typical Performance Plots

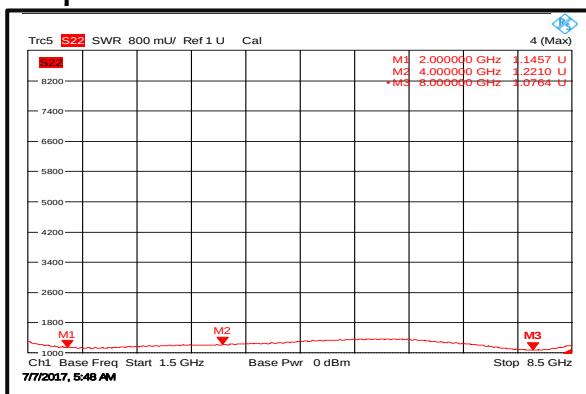
Insertion Loss



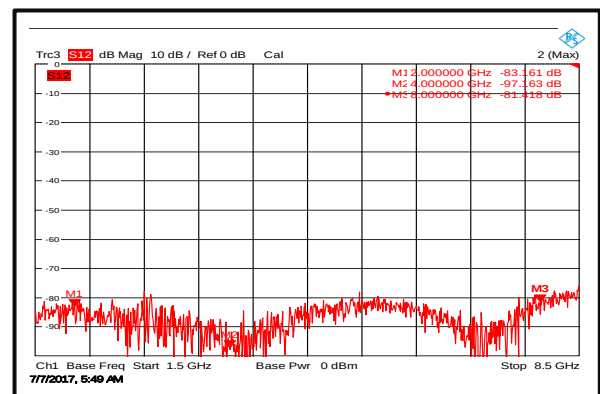
Input VSWR



Output VSWR



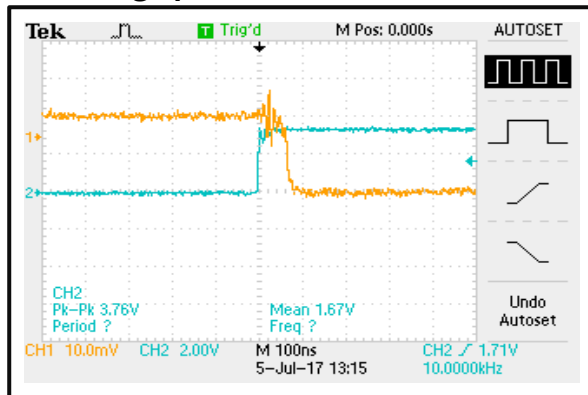
Isolation



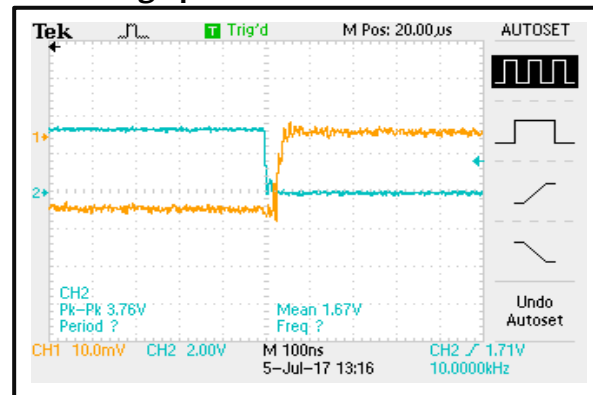
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Switching Speed

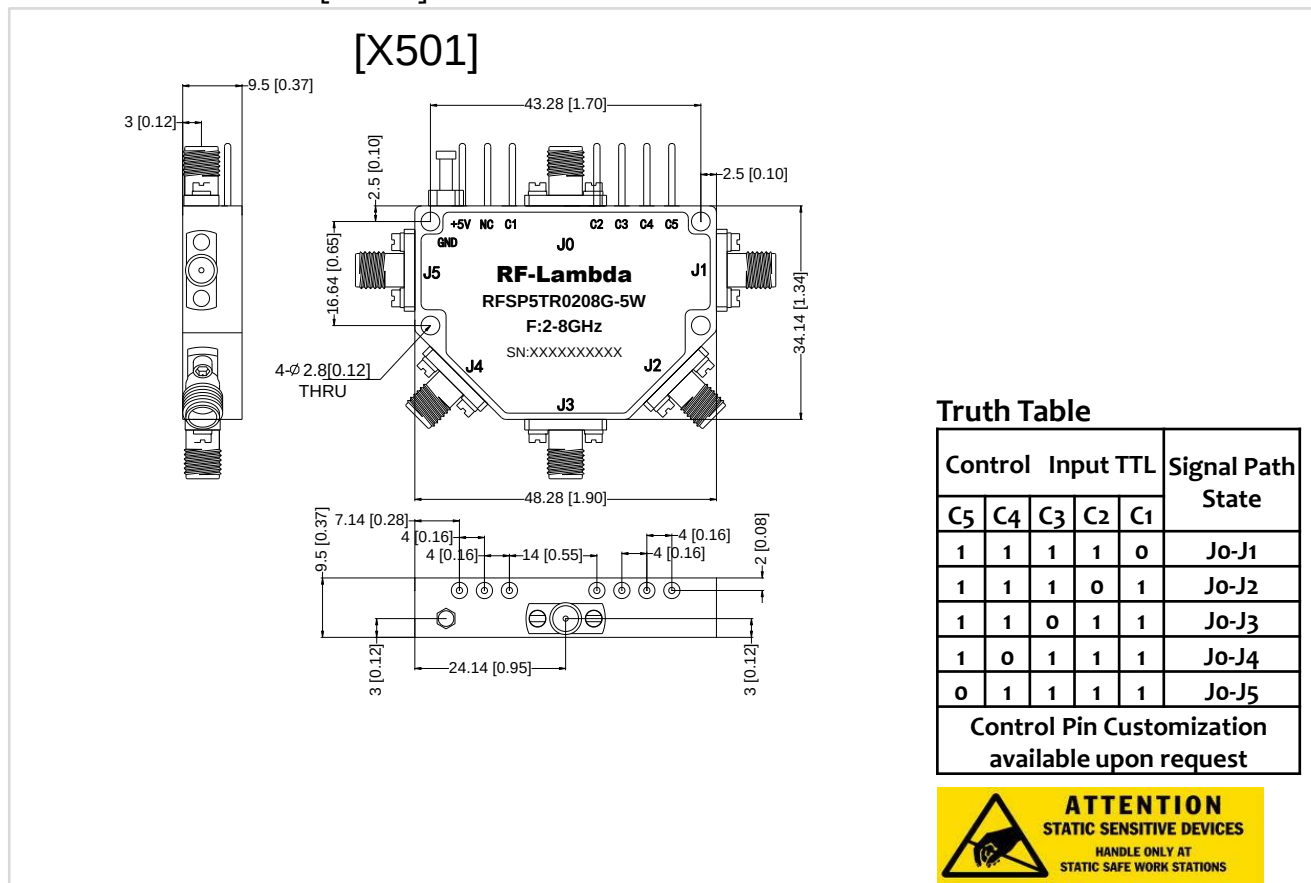


Switching Speed



Outline Drawing:

All Dimensions in mm [inches]



Important Notice

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