



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFSPSTA0001G

Absorptive Coaxial SPST Switch 0.02 - 1GHz



Features

- Wide Band Operation 0.02-1GHz
- TTL compatible driver included
- 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, Vdd = +5V, Vss = -5V, TTL = 0 / +5V

Description	PN: RFSPSTA0208G			
	SPST Absorptive Switch			
	Jo: Absorptive Port			
	J1: Reflective port			
	Low Power Cold Switching			
Parameters	Min	Typ.	Max	Units
Frequency Range	0.02-1			GHz
Insertion Loss		0.7	1.0	dB
Insertion Loss Temperature Coefficient		0.003		dB/°C
Isolation (Jo→J1)	80	90		dB
Input VSWR		1.3	1.5	: 1
Output VSWR		1.3	1.5	: 1
RF Input Power (CW)			30	dBm
DC Power Dissipation		0.3		W
0.1dB Compression Point (Po.1dB)		30		dBm
IIP3		55		dBm
Switching Speed			550	ns
Weight	1.2			ounces
Impedance	50			Ω
Bias Current(+5V/-5V)	50/50			mA
Input / Output Connectors	SMA - Female			
Finishing	Gold Plating			
Material	Aluminum			
Sealing	Hermetically Sealed (optional)			

Absorptive Coaxial Single Pole Single Throw Switch 0.02 - 1GHz



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Absolute Maximum Ratings

Biassing	+5V±10%/-5V±10%
TTL Control Voltage	0~0.8V/2~5V

Ordering Information

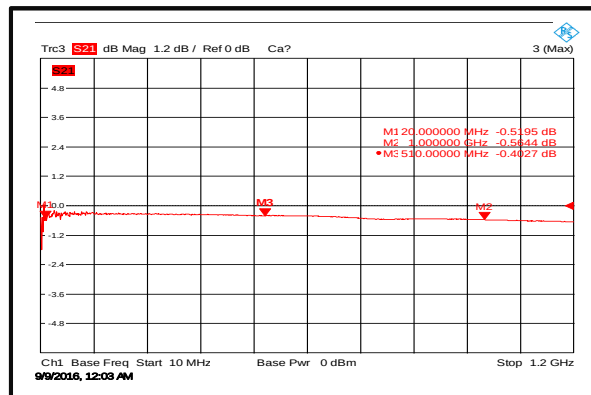
Part No.	ECCN	Description
RFSPSTA0001G	EAR99	SPST 0.02-1GHz PIN Diode Switch

Environmental Specifications

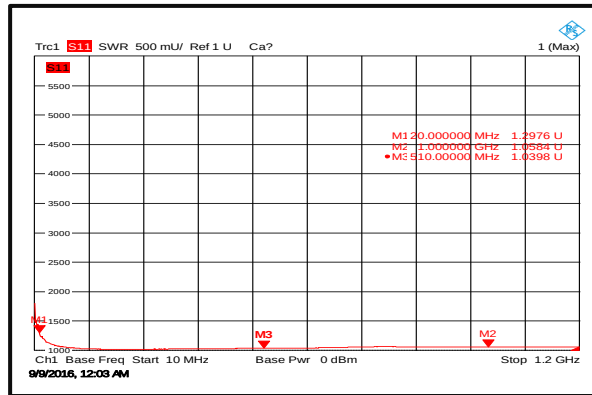
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min. (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C,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

Typical Performance Plots

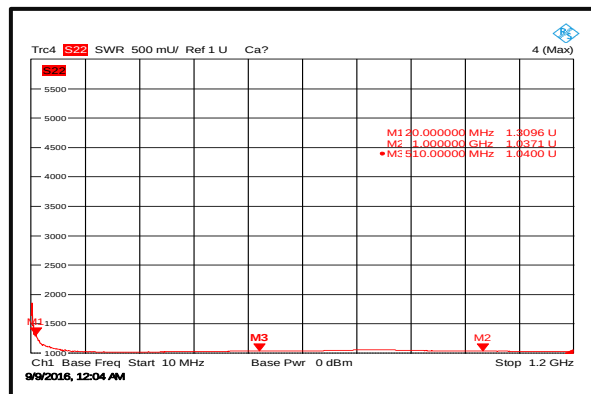
Insertion Loss



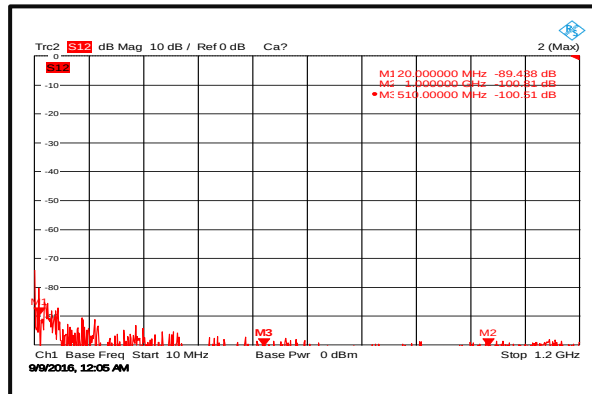
Input VSWR



Output VSWR



Isolation



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