



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFSP2TR5M06G

Reflective Coaxial SP2T Switch 0.5 - 6GHz



Features

- Wide Band Operation 0.5-6GHz
- 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.

Reflective Coaxial Single Pole Double Throw Switch 0.5 - 6GHz

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

Description	PN: RFSP2TR5M06G						
	SP2T Reflective Switch						
	High Power Hot Switching						
	Min	Typ	Max	Min	Typ	Max	Units
Parameters							
Frequency Range	0.5-3			3-6			GHz
Insertion Loss		1.1	1.3		1.5	1.5	dB
Insertion Loss Temperature Coefficient		0.003			0.003		dB/°C
Isolation	40	48		35	38		dB
Input VSWR		1.4	1.6		1.4	1.6	: 1
Output VSWR		1.4	1.6		1.4	1.6	: 1
RF Input Power (pulsed, 10% Duty Cycle, 20us pulse width)			100			100	W
DC Power Dissipation		25			30		W
0.1dB Compression Point (Po.1dB) (Pulsed)		50			50		dBm
IIP3		50			50		dBm
Switching Speed			100			100	ns
Weight	3.53						Ounces
Impedance	50						Ω
Bias Current (+5V)	100						mA
Input / Output Connectors	N - Female						
Finishing	Gold Plating						
Material	Aluminum						
Sealing	Hermetically Sealed (optional)						



Absolute Maximum Ratings

Biasing	+5.5V
TTL Control Voltage	0~0.8V/2~5V

Ordering Information

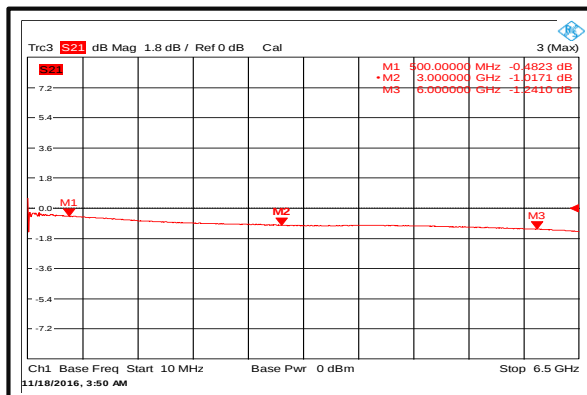
Part No.	ECCN	Description
RFSP2TR5M06G	EAR99	SP2T 0.5-6GHz GaN Switch

Environmental Specifications

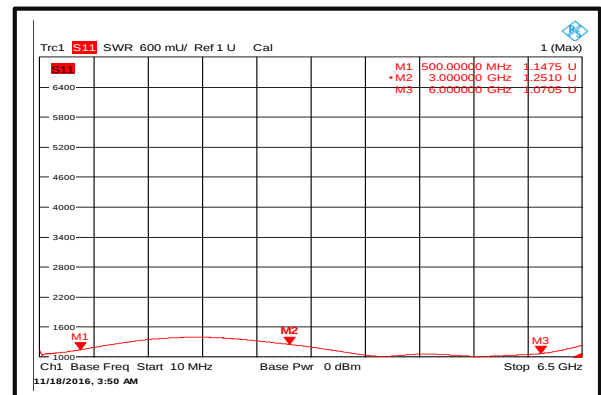
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment) 60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c,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

Typical Performance Plots

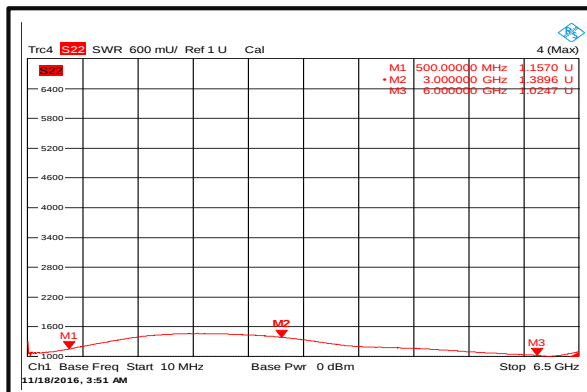
Insertion Loss



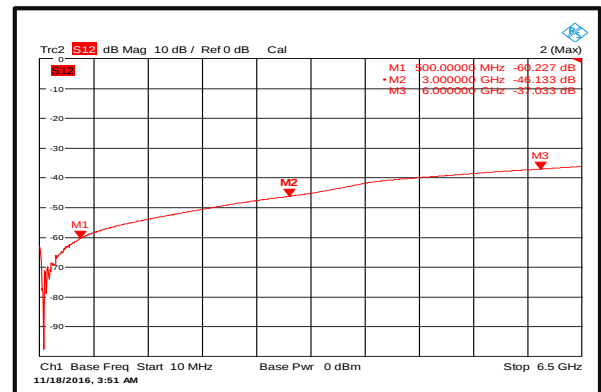
Input VSWR



Output VSWR

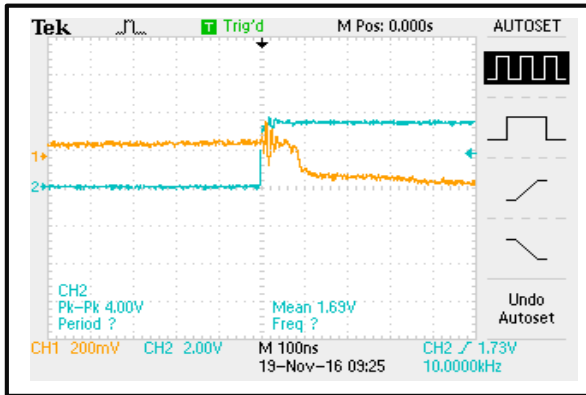


Isolation

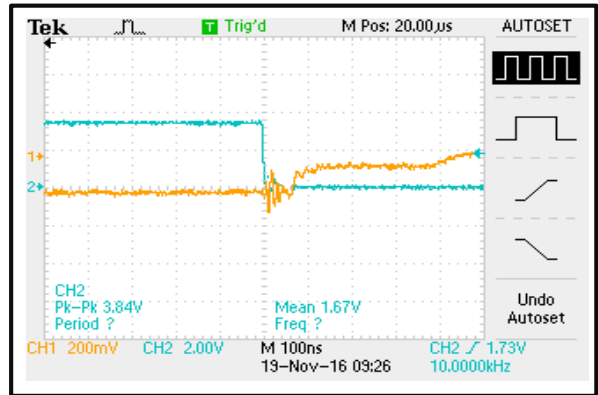




Switching Speed

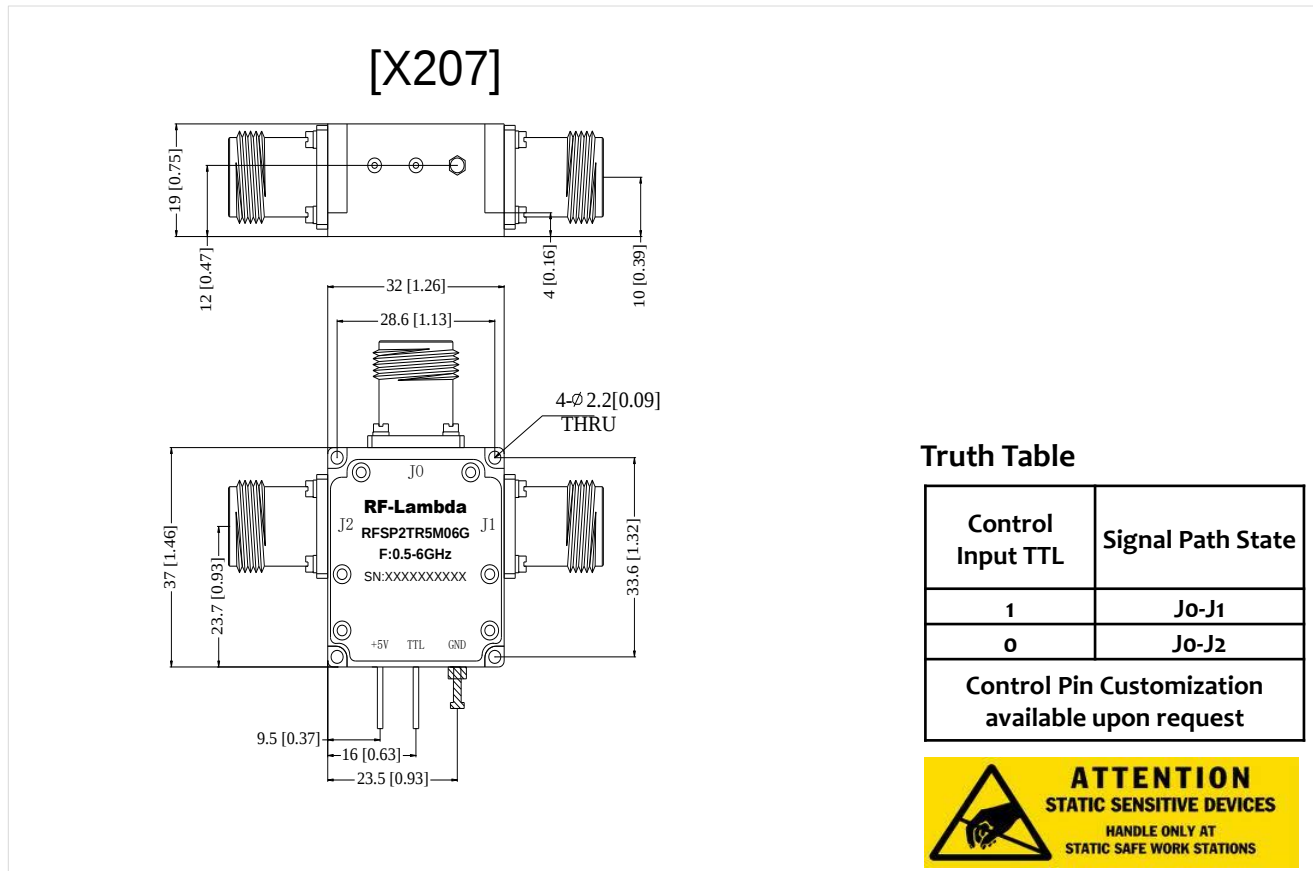


Switching Speed



Outline Drawing:

All Dimensions in mm [inches]



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