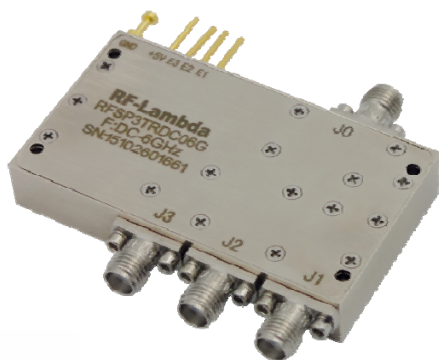




Reflective DC-6GHz Coaxial SP3T Switch



Features

- Ultra Wide Band Operation DC-6GHz
- TTL 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, VCTL = 0/ +5V

Description	PN: RFSP3TRDC06G			
	SP3T Reflective Switch			
	High Power Cold Switching			
Parameters	Min	Typ.	Max	Units
Frequency Range	DC-6			GHz
Insertion Loss		1.2	2.0	dB
Insertion Loss Temperature Coefficient		0.003		dB/°C
Isolation		30		dB
Input VSWR		1.2	1.5	
Output VSWR		1.2	1.5	
RF Input power (CW)			15	W
IM3		45		dBc
IIP3		50		dBm
1dB Compression P o.1dB		46		dBm
Switching Speed			250	ns
Weight	4.6			ounces
Impedance	50			Ω
Biasing(+5V)	80			mA
Input /Output Connector	SMA-Female/SMA-Female (Standard)			
Finishing	Gold Plating			
Material	Aluminum			
Seal	Hermetically Sealed (optional)			



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RFSP3TRDC06G

Absolute Maximum Ratings

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

Ordering Information

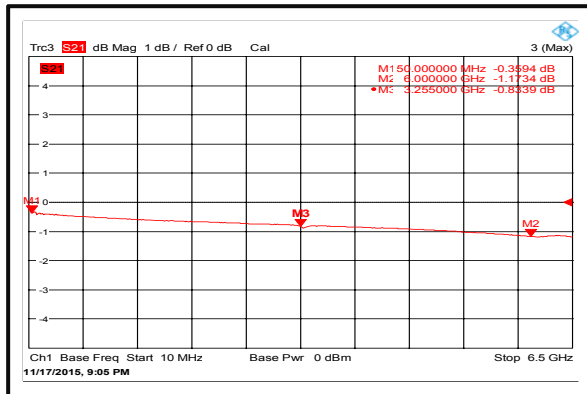
Part No	ECCN	Description
RFSP3TRDC06G	EAR99	SP3T DC-6GHz PIN Diode Switch

Environment specifications

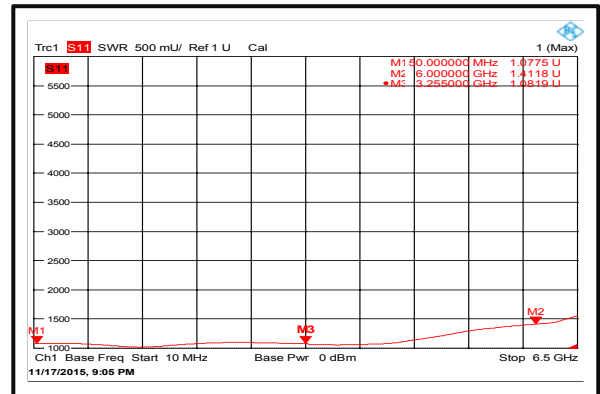
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH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

Typical performance plots

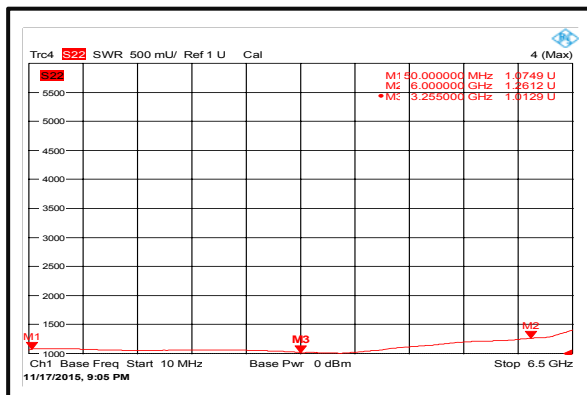
Insertion Loss



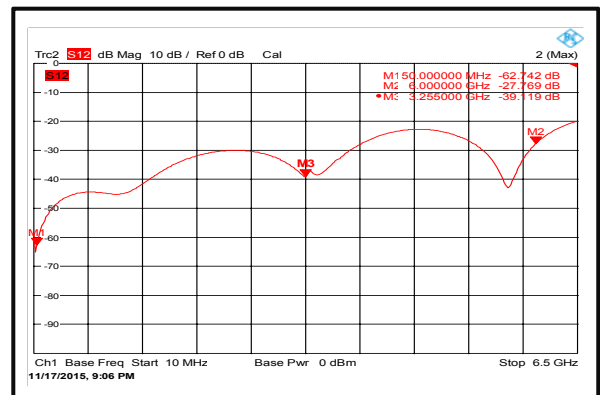
Input VSWR



Output VSWR



Isolation



Reflective Coaxial Single Pole Three Throw Switch DC-6GHz

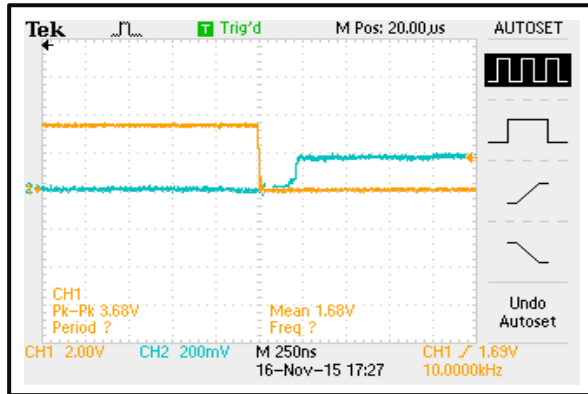


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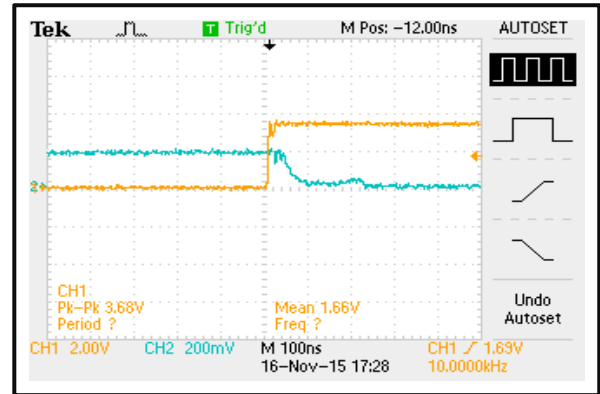
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RFSP3TRDC06G

Switching Speed

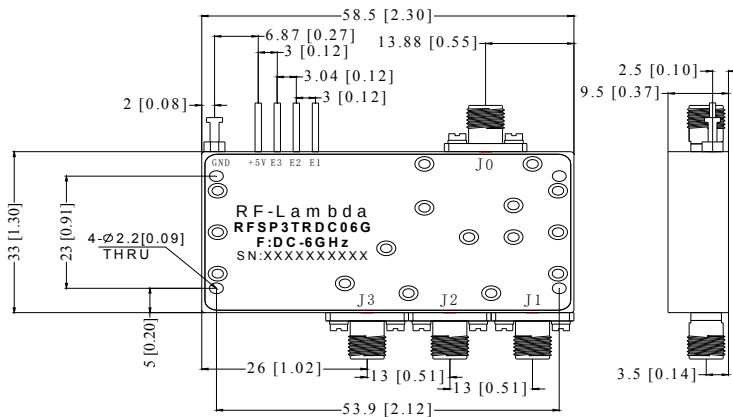


Switching Speed



Outline Drawing:

All Dimensions in mm (inches)



Truth Table

Control Input TTL			Signal Path State
C3	C2	C1	
0	1	1	J0-J1
1	0	1	J0-J2
1	1	0	J0-J3
Other combination is invalid			
Control Pin Customization available upon request			



Important Notice

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Reflective Coaxial Single Pole Three Throw Switch DC-6GHz