

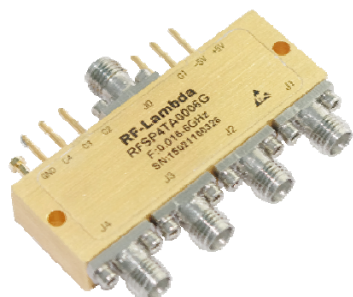


RF-LAMBDA

LEADER OF BROADBAND SOLUTIONS

RFSP4TRDC12G

Reflective DC-12GHz Coaxial SP4T Switch



Features

- Wide Band Operation DC-12GHz
- 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: RFSP4TRDC12G						
	SP4T Reflective Switch						
	High Power Cold Switching						
Parameters	Min	Typ.	Max	Min	Typ.	Max	Units
Frequency Range	DC-6			6-12			GHz
Insertion Loss			1.8		1.8		dB
Insertion Loss Temperature Coefficient		0.003			0.003		dB/°C
Isolation		70			70		dB
Input VSWR			2			2	ratio
Output VSWR (ON State)			2			2	ratio
Output VSWR (OFF State)			2			2	ratio
Power Dissipation (CW)		10			10		W
IM3		53			53		dBc
1dB Compression P1dB		43			43		dBm
Switching Speed			18			18	ns
Weight	-						ounces
Impedance	50						Ω
Biasing(+5V)	100						mA
Input /Output Connector	SMA-Female(Standard)						
Finishing	Gold Plating						
Material	Aluminum						
Seal	Hermetically Sealed (optional)						

Reflective Coaxial Single Pole Four Throw Switch DC-12GHz



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Absolute Maximum Ratings

Biasing	+5V
TTL Control Voltage	+5V/0V
RF Input power	+43dBm
Operating Temperature(°C)	-45 ~ +85
Storage Temperature(°C)	-50 ~ +125

Ordering Information

Part No	ECCN	Description
RFSP4TRDC12G	EAR99	SP4T DC-6GHz GaN 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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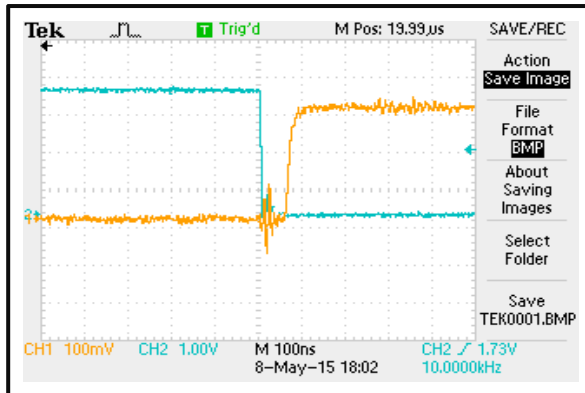


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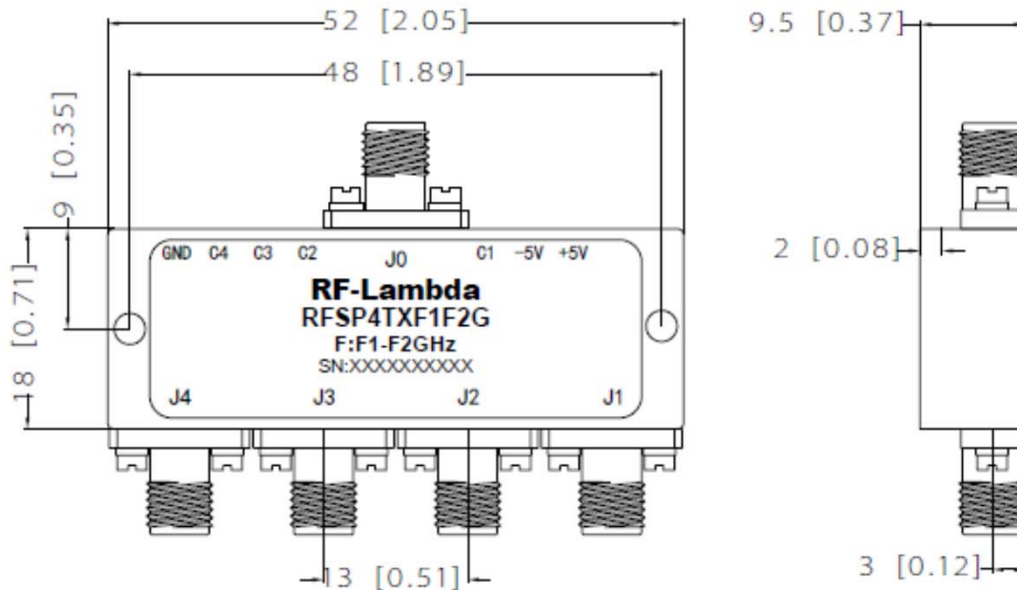
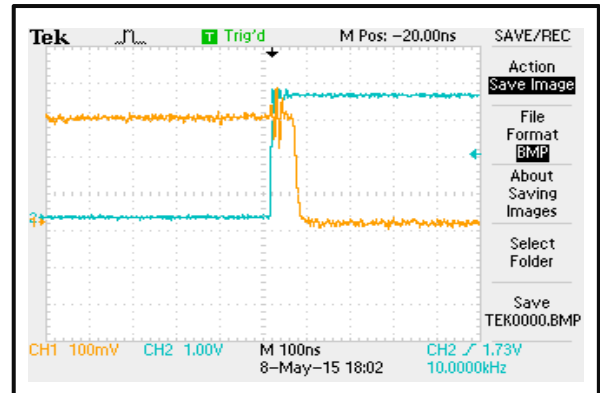
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Switching Speed



Switching Speed



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Reflective Coaxial Single Pole Four Throw Switch DC-12GHz