

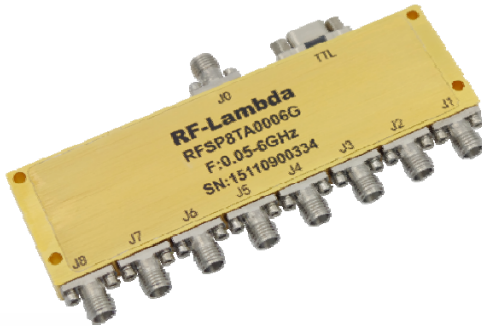


RF-LAMBDA

LEADER OF BROADBAND SOLUTIONS

RFSP8TA0006G

Absorptive 0.05-6GHz Coaxial SP8T Switch



Features

- Ultra Wide Band Operation 0.05-6GHz
- 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, Vss = -5V & VCTL = 0/ +5V

Description	PN: RFSP8TA0006G						
	SP8T Absorptive Switch						
	Low Power Cold Switching						
Parameters	Min	Typ.	Max	Min	Typ.	Max	Units
Frequency Range	0.05-2			2-6			GHz
Insertion Loss		1.6	2		2.8	3.2	dB
Insertion Loss Temperature Coefficient		0.003			0.003		dB/°C
Isolation	65	70		60	70		dB
Input VSWR		1.4	1.7		1.4	1.7	
Output VSWR		1.4	1.7		1.4	1.7	
RF Input power	30			30			dBm
Power Dissipation (CW)		0.35			0.5		W
0.1dB Compression Po.1dB	30			30			dBm
IM3		40			40		dBc
IIP3		50			50		dBm
Switching Speed	500(Standard)			500(Standard)			ns
	100(Option with extra cost)			100(Option with extra cost)			
Weight	3.5						ounces
Impedance	50						Ω
Biasing(+5V/-5V)	350/50						mA
Input /Output Connector	SMA-Female(Standard)						
Control PIN	Micro-D9 Female						
Finishing	Gold Plating						
Material	Aluminum						
Seal	Hermetically Sealed (optional)						

Absorptive Coaxial Single Pole Eight Throw Switch 0.05-6GHz



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Absolute Maximum Ratings

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

Ordering Information

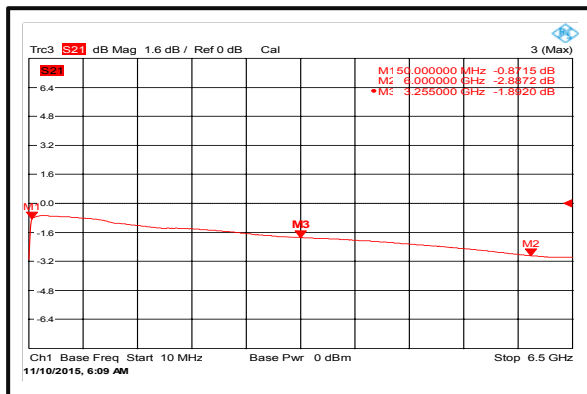
Part No	ECCN	Description
RFSP8TA0006G	EAR99	SP8T 0.05-6GHz PIN Diode Switch

Environment specifications

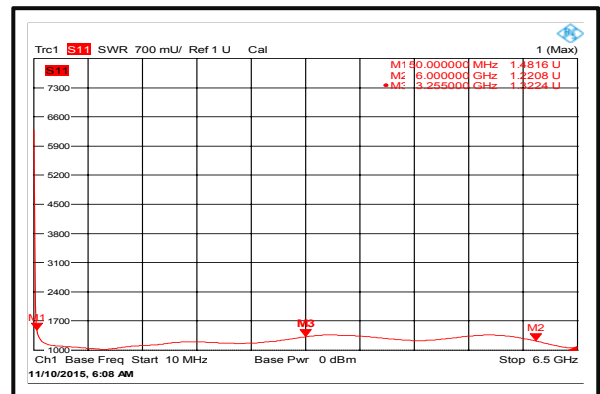
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH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

Typical performance plots

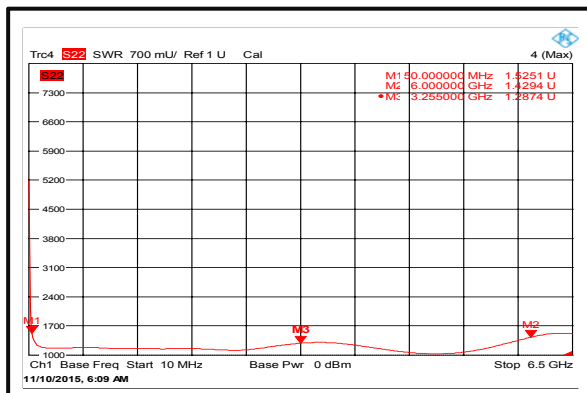
Insertion Loss



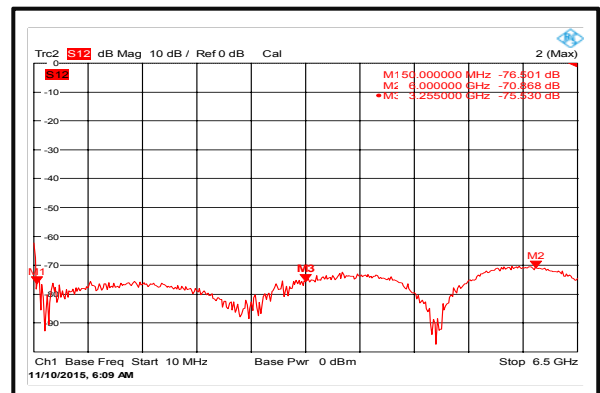
Input VSWR



Output VSWR



Isolation



Absorptive Coaxial Single Pole Eight Throw Switch 0.05-6GHz

