



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFSP2TRDC12G

Reflective Coaxial SP2T Switch DC - 12GHz



Features

- Wide Band Operation DC-12GHz
- 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 DC-12GHz

Electrical Specifications, TA = +25° C, Vdd = +5V, Control TTL = 0 / +5V

Description	PN: RFSP2TRDC12G						
	SP2T Reflective Switch						
	High Power Cold Switching						
	Min	Typ	Max	Min	Typ	Max	Units
Parameters							
Frequency Range	DC-6			6-12			GHz
Insertion Loss		1.2	1.5		1.8	2	dB
Insertion Loss Temperature Coefficient		0.003			0.003		dB/°C
Isolation	30	35		25	28		dB
Input VSWR		1.6	1.8		1.6	1.8	: 1
Output VSWR		1.6	1.8		1.6	1.8	: 1
RF Input power (CW)			44			44	dBm
DC Power Dissipation (CW)		4			6		W
0.1dB Compression Point (Po.1dB)		44			44		dBm
IIP3		45			45		dBm
Switching Speed			100			100	ns
Weight	1.24						ounces
Impedance	50						Ω
Bias Current (+5V)	100						mA
Input / Output Connectors	SMA - Female						
Finishing	Gold Plating						
Material	Aluminum						
Sealing	Hermetically Sealed (optional)						



Absolute Maximum Ratings

Biasing Voltage	+5V±10%
TTL Control Voltage	-0.5~ 0.8V / 2 ~ 5.5V

Ordering Information

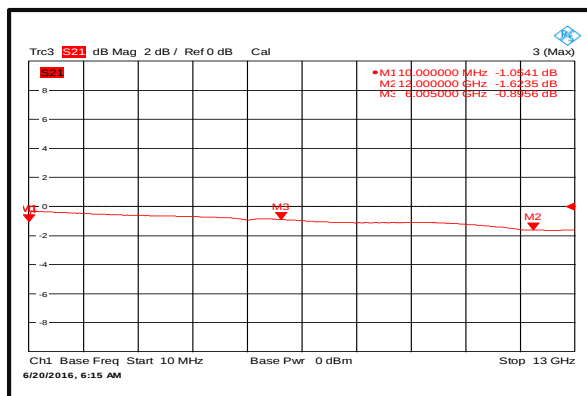
Part No	ECCN	Description
RFSP2TRDC12G	EAR99	SP2T DC-12GHz GaN Switch

Environmental Specifications

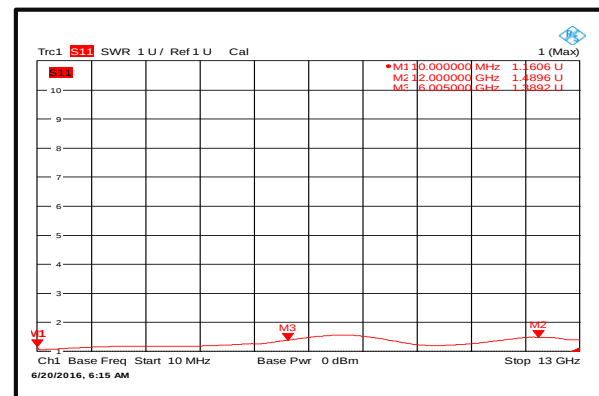
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c,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

Typical Performance Plots

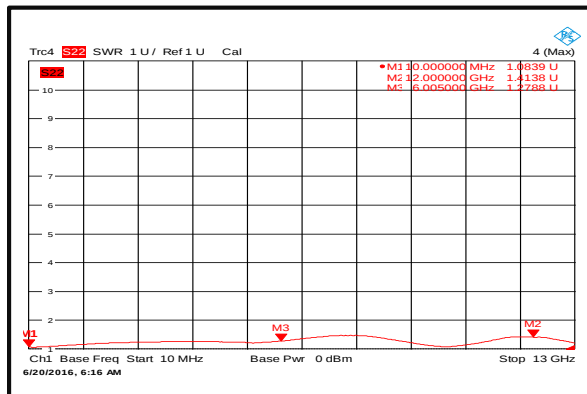
Insertion Loss



Input VSWR



Output VSWR



Isolation

