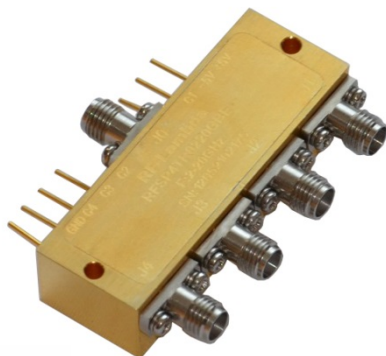




Reflective2-20GHz Coaxial SP4T Switch



Features

- Wide Band Operation 2-20GHz
- High Power Handle Capability up to 5W upon request.
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Temperature Range -45°C~+85°C
- Customization available upon request

Specification	Reflective type				
	PN: RFSP4TR0220GBE				
	Low		Med		High
Frequency Range(GHz)	2		11		20
Insertion Loss(dB)	2dB typ. @2GHz		2.5dB typ. @11GHz		2.9dB typ. @20GHz
VSWR	1.8		1.8		2.0
Isolation(dB)	85		85		80
Switching Speed(ns)	50		50		100
P1dB Power (dBm)			27		
Absolutely max. Power (W)					1
Weight (g)	35				
IIP3 (Input IP3) dBm	42.92				
Impedance(Ohms)	50Ω				
Power Supply (V)	+/-5 V DC				
Current(mA)	30mA (+5V) 30mA (-5V)				
Input Connector	SMA-Female				
Output Connector	SMA-Female				
Finishing	Gold Plating				
Material	Aluminum				
Seal	Hermetically Sealed				
Control (TTL Driver Included)	TTL Control				
	C4	C3	C2	C1	Status
	1	1	1	0	Jo-J1
	1	1	0	1	Jo-J2
	1	0	1	1	Jo-J3
	0	1	1	1	Jo-J4



Absolute Maximum Ratings	
Biasing	+/-5 V
TTL Control Voltage	+5V/oV
Input RF power	+30dBm
Storage Temperature (C°)	-50 ~ +125

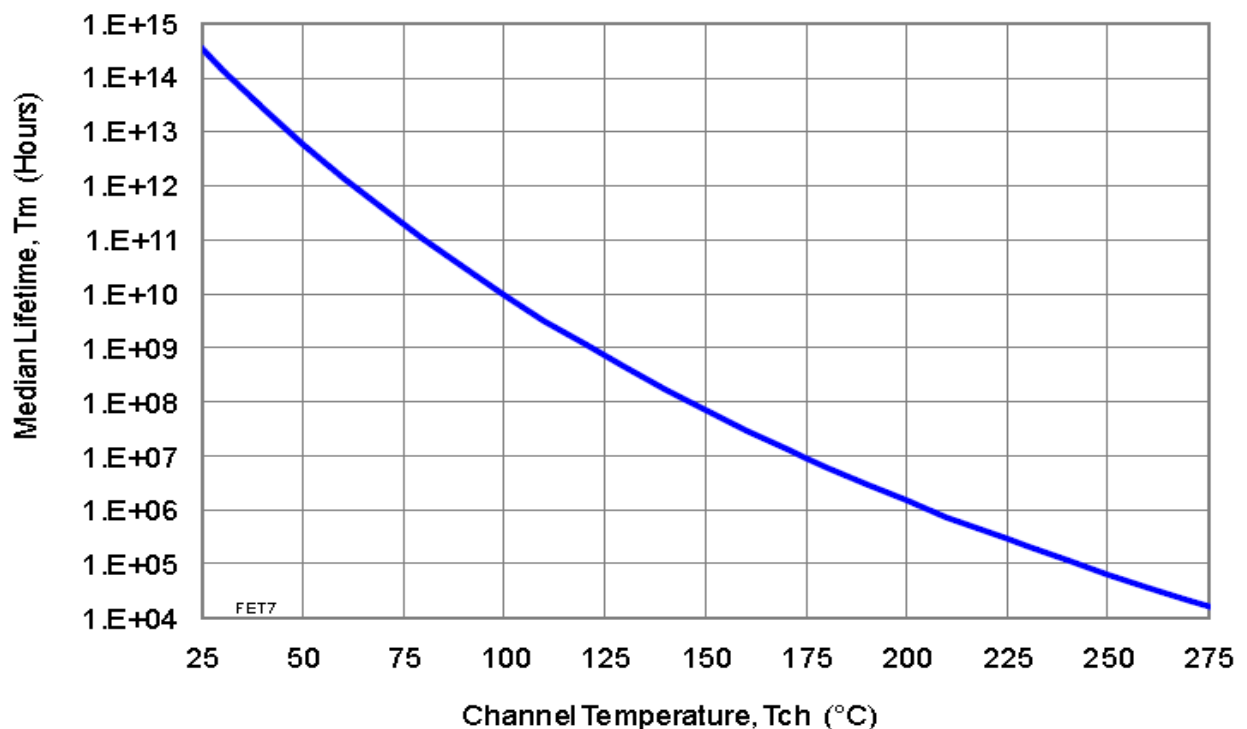
Biasing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

Environment specifications	
Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft (Controlled environment)
Vibration	35g rms (15 degree 2KHz)
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc

Ordering Information		
Part No	ECCN	Description
RFSP4TR0220GBE	EAR99	SP4T 2-20GHz PIN Diode Switch



Median Lifetime (Tm) vs. Channel Temperature (Tch)





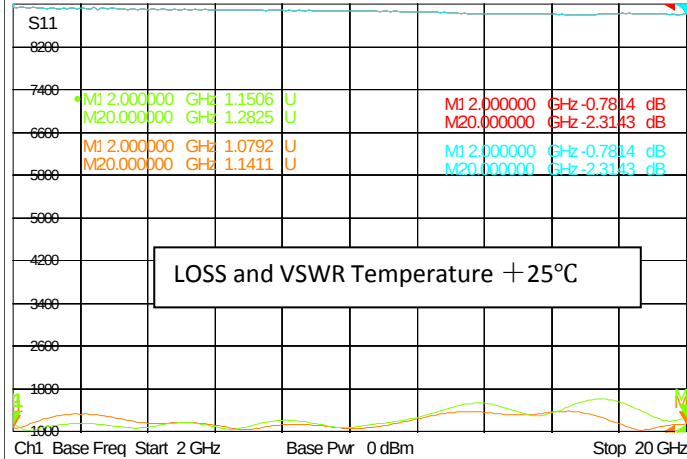
RF-LAMBDA

The power beyond expectations

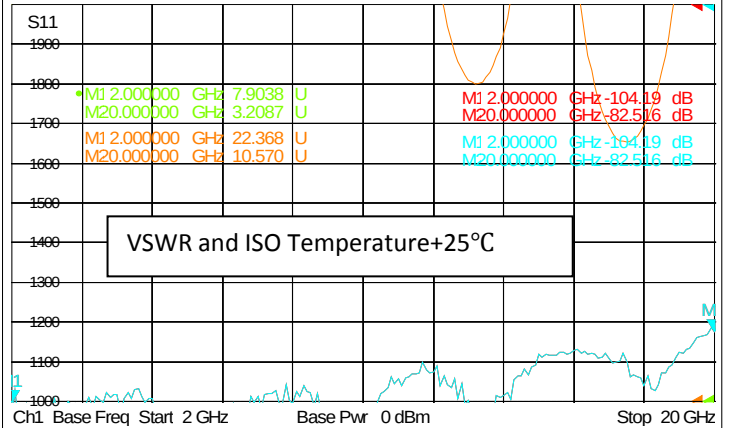
RFSP4TR0220GBE

Reflective Coaxial Single Pole Four Throw Switch 2-20GHz

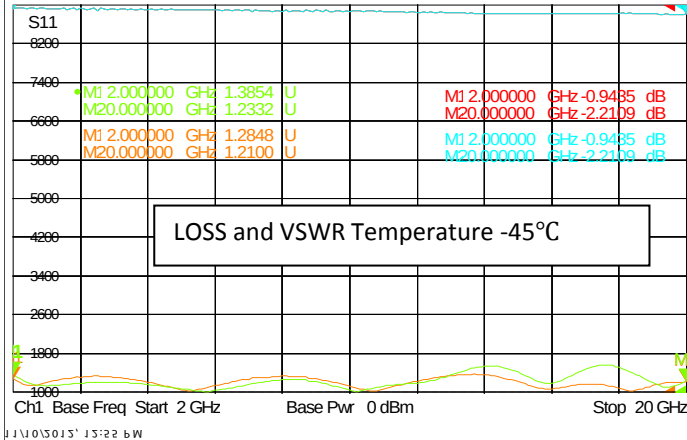
Trc1 SWR 800 mU/ Ref 1 U Cal
Trc2 dB Mag 10 dB / Ref 0 dB Cal
Trc3 SWR 800 mU/ Ref 1 U Cal
Trc4 dB Mag 10 dB / Ref 0 dB Cal



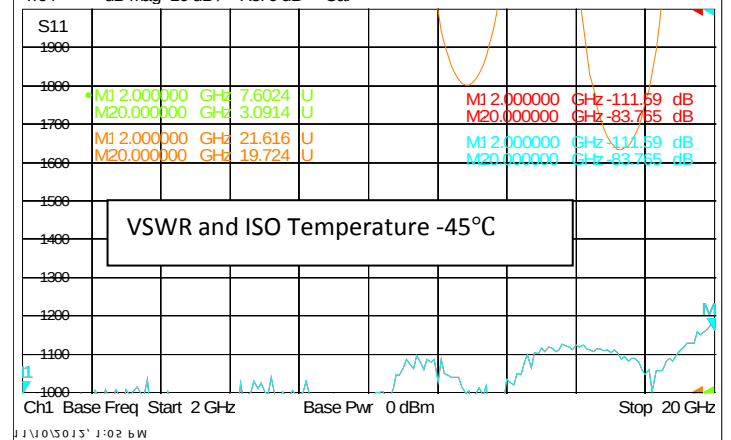
Trc1 SWR 100 mU/ Ref 1 U Cal
Trc2 dB Mag 10 dB / Ref 0 dB Cal
Trc3 SWR 800 mU/ Ref 1 U Cal
Trc4 dB Mag 10 dB / Ref 0 dB Cal



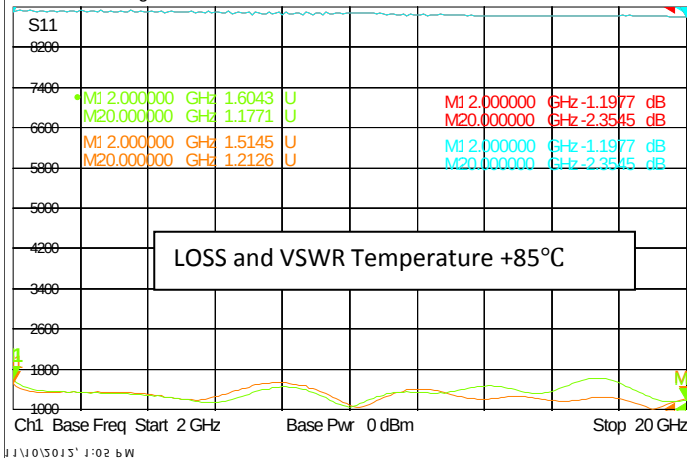
Trc1 SWR 800 mU/ Ref 1 U Cal
Trc2 dB Mag 10 dB / Ref 0 dB Cal
Trc3 SWR 800 mU/ Ref 1 U Cal
Trc4 dB Mag 10 dB / Ref 0 dB Cal



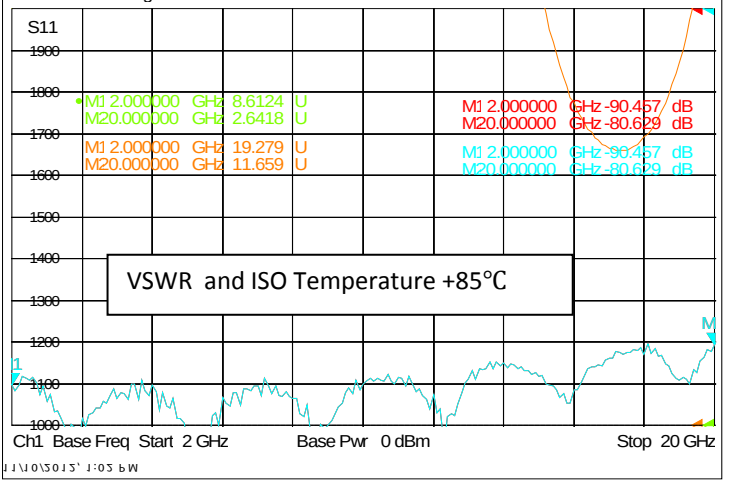
Trc1 SWR 100 mU/ Ref 1 U Cal
Trc2 dB Mag 10 dB / Ref 0 dB Cal
Trc3 SWR 800 mU/ Ref 1 U Cal
Trc4 dB Mag 10 dB / Ref 0 dB Cal



Trc1 SWR 800 mU/ Ref 1 U Cal
Trc2 dB Mag 10 dB / Ref 0 dB Cal
Trc3 SWR 800 mU/ Ref 1 U Cal
Trc4 dB Mag 10 dB / Ref 0 dB Cal



Trc1 SWR 100 mU/ Ref 1 U Cal
Trc2 dB Mag 10 dB / Ref 0 dB Cal
Trc3 SWR 800 mU/ Ref 1 U Cal
Trc4 dB Mag 10 dB / Ref 0 dB Cal



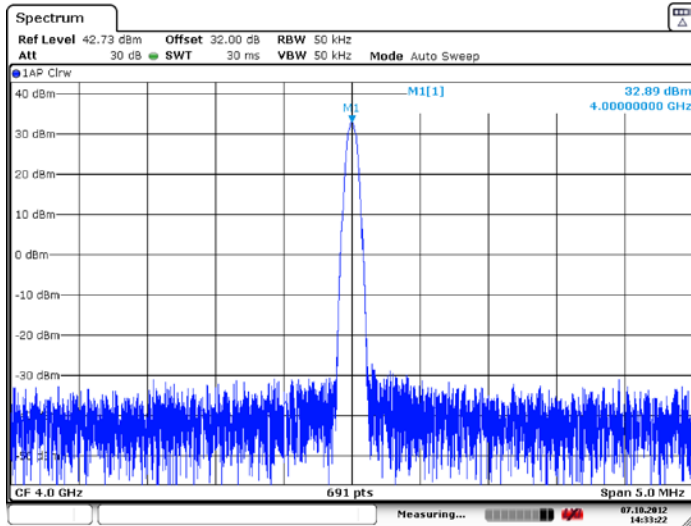


RF-LAMBDA

The power beyond expectations

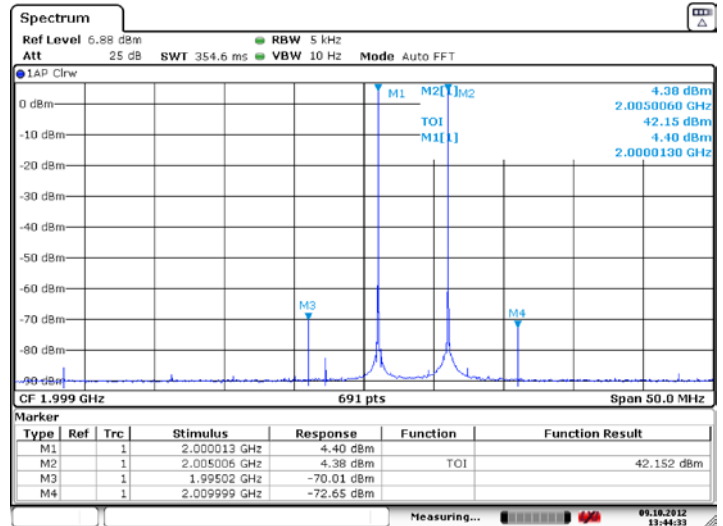
RFSP4TR0220GBE

1dB Compression Point

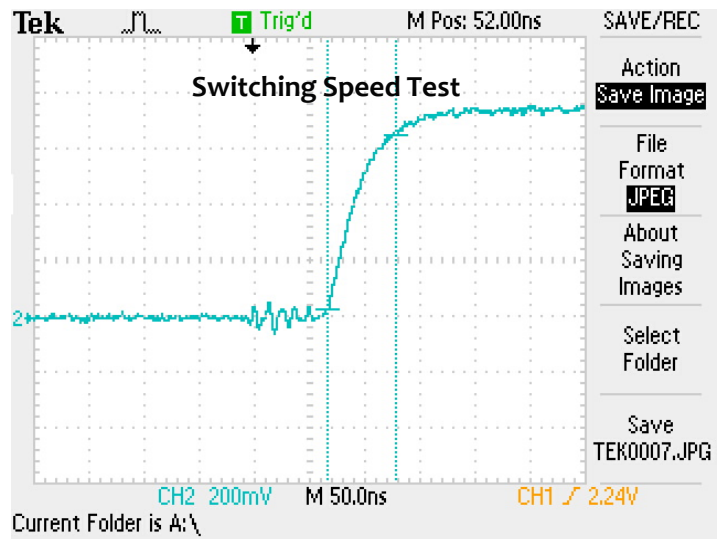
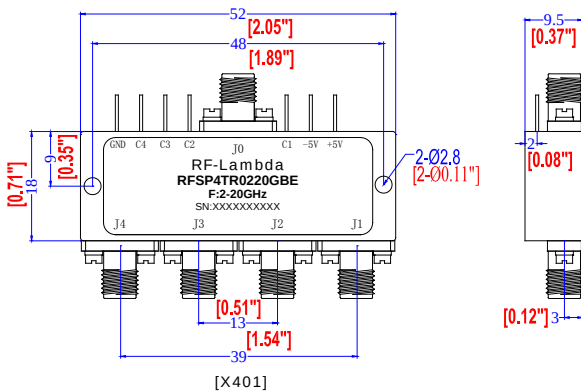


Date: 7.OCT.2012 14:33:22

IP3 – INPUT IP3 Point



Date: 9.OCT.2012 13:44:33



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Reflective Coaxial Single Pole Four Throw Switch 2-20GHz