



Reflective 115-140MHz Coaxial SP4T Switch

Features

- Wide Band Operation 115-140MHz
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Customization available upon request



Typical Applications

- Wireless Infrastructure
- 5G communication
- Test and measurement Instrument

RF Microwave & VSAT
Fiber Optics

Parameters	Min	Typ.	Max	Units
Frequency Range	0.115-0.14			GHz
Insertion Loss			5.1	dB
Insertion Loss Temperature Coefficient		0.003		dB/ ° C
Isolation	40		90	dB
Input VSWR			1.3	: 1
Output VSWR			1.3	: 1
RF Input power (CW)	7	8	10	dBm
DC Power Dissipation (CW)		0.3		W
IIP3		50		dBm
0.1dB Compression P0.1dB		23		dBm
Switching Speed			500	ns
Weight	3			ounces
Impedance	50			Ω
Biasing(+5V/+15V)	300/100			mA
Input /Output Connectors	SMA-Female/SMA-			
Finish	Gold Plated			
Material	Aluminum			
Seal	Hermetically Sealed (optional)			



Absolute Maximum Ratings

Biasing	+5V±10%/+15V±10%
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Ordering Information

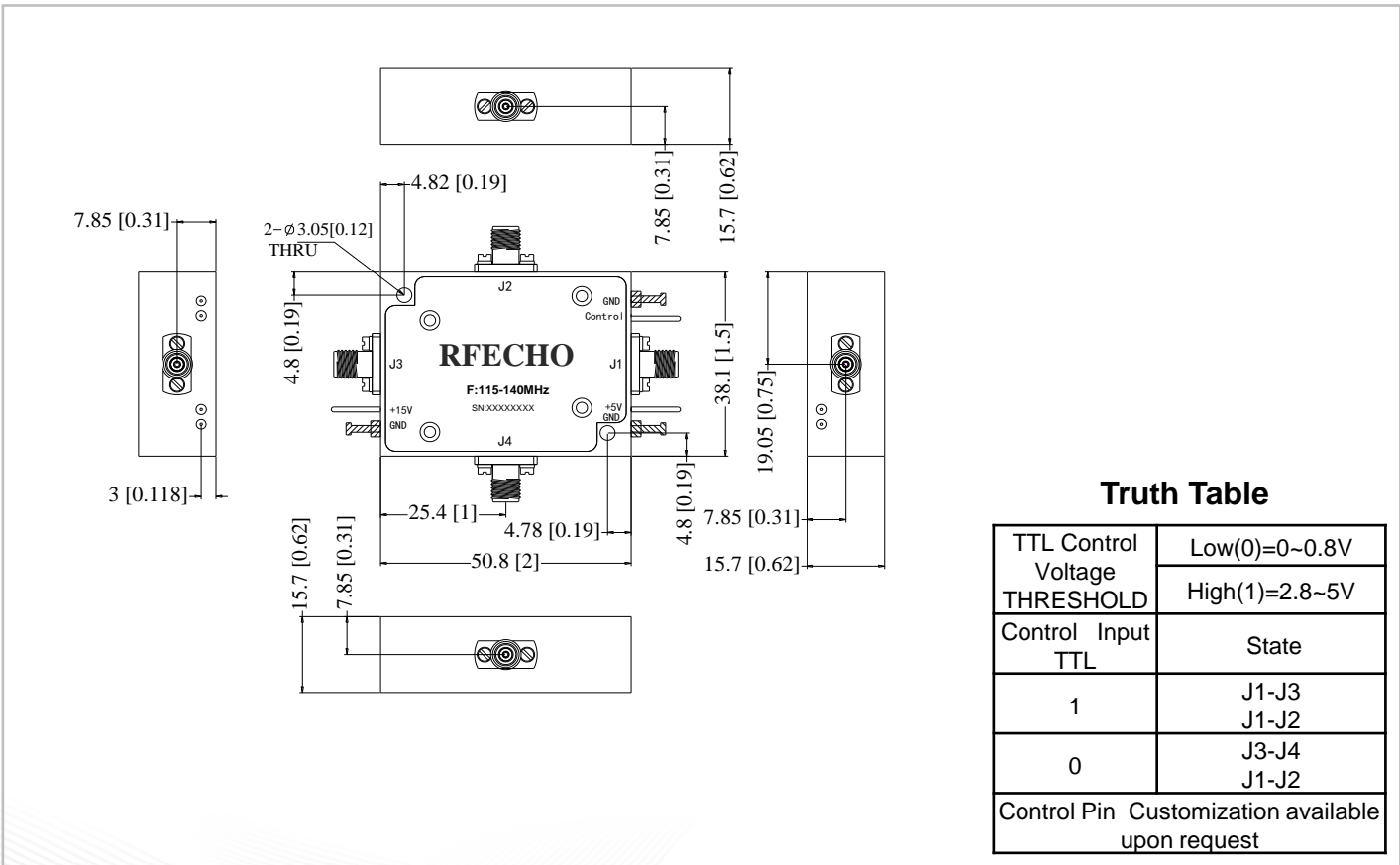
Part No.	Description
DBSR0400110014A	SP4T 0.115-0.140GHz PIN Diode Switch

Environmental Specifications

Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

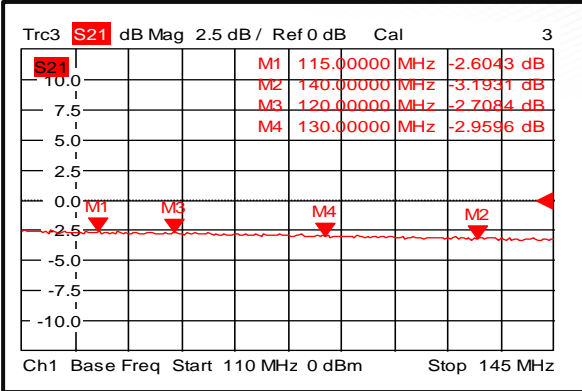
Outline Drawing:

All Dimensions in mm (inches)

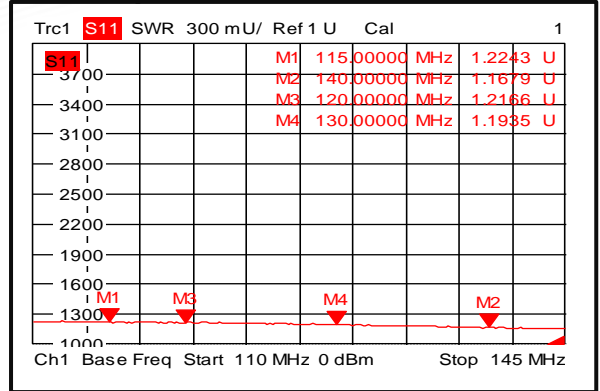




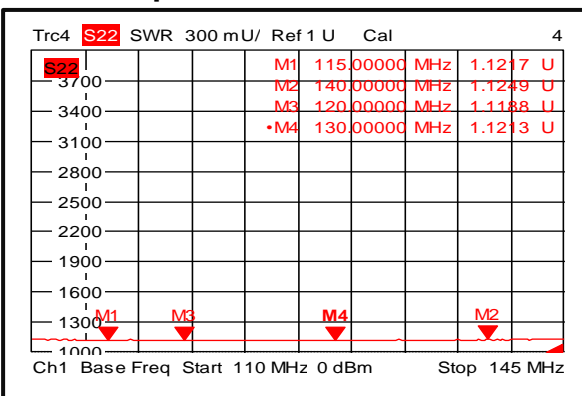
J1-J3 Insertion Loss



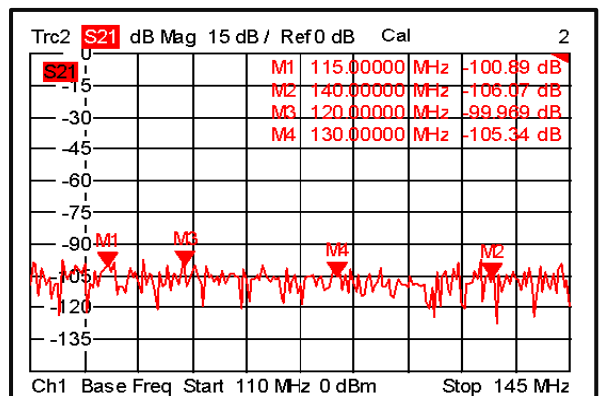
J1-J3 Input VSWR



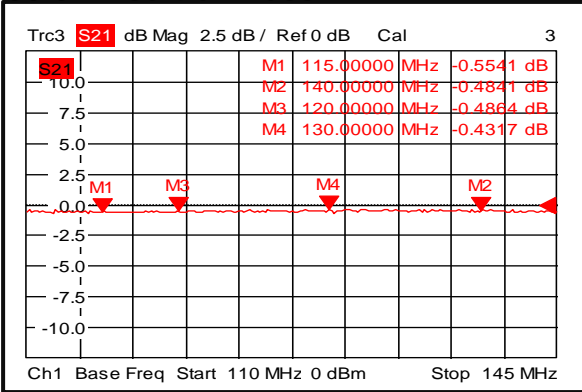
J1-J3 Output VSWR



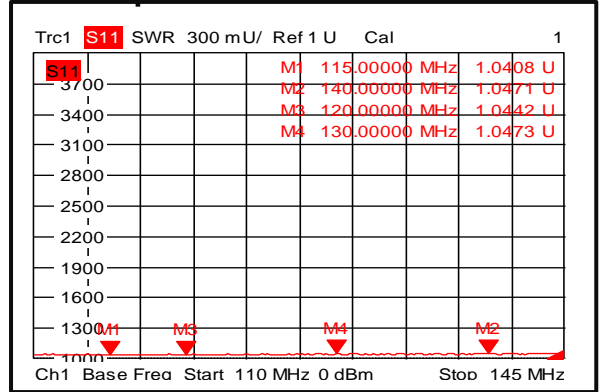
J1-J3 Isolation



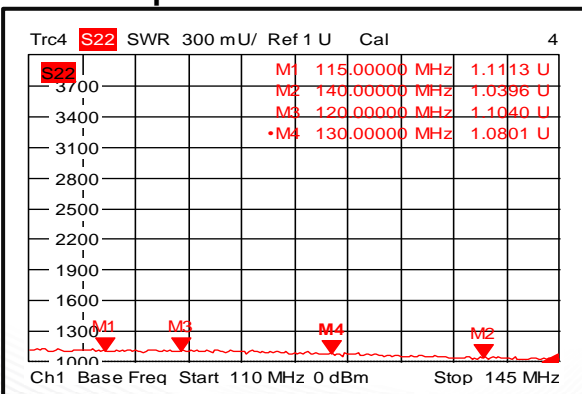
J3-J4 Insertion Loss



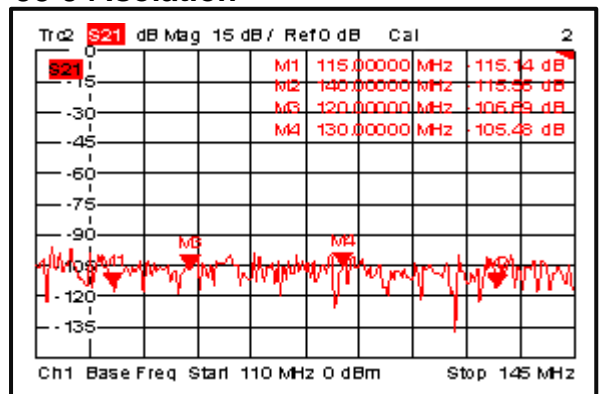
J3-J4 Input VSWR



J3-J4 Output VSWR

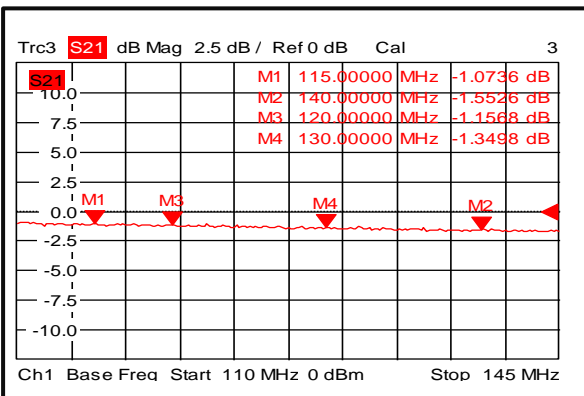


J3-J4 Isolation

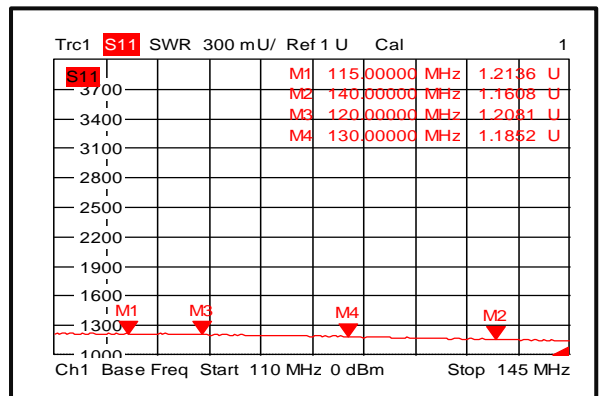




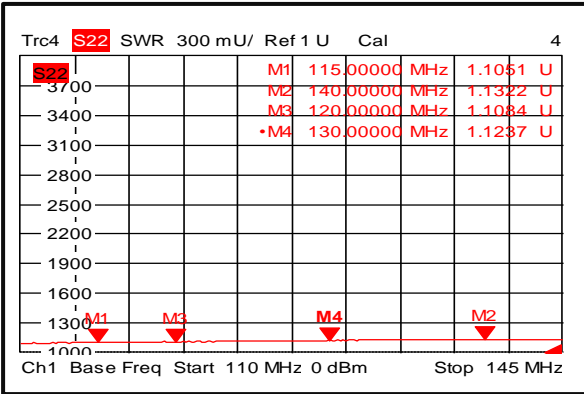
J1-J2 Insertion Loss



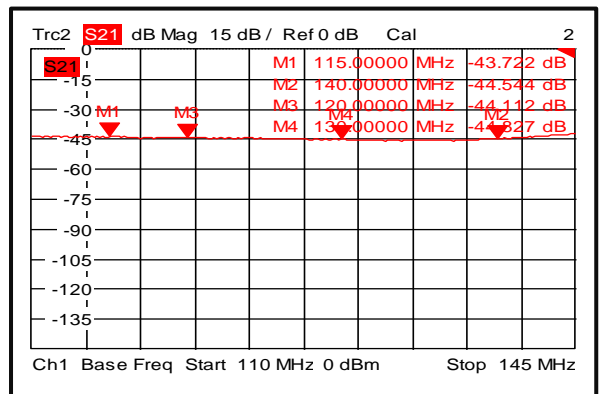
J1-J2 Input VSWR



J1-J2 Output VSWR



J2-J3 Isolation





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