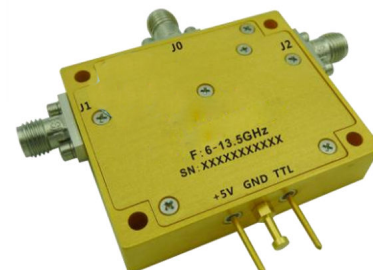




Reflective Coaxial SP2T Switch 6 – 13.5GHz

Features

- Wide Band Operation 6-13.5GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- High Power Cold Switching
- Customization available upon request



Typical Applications

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

RF Microwave & VSAT
Fiber Optics

Parameter	Min.	Typ.	Max.	Units
Frequency Range	6-13.5			GHz
Insertion Loss		1.2	1.8	dB
Insertion Loss Temperature Coefficient		0.003		dB/ ° C
Isolation	50	55		dB
Input VSWR		1.5	2.0	: 1
Output VSWR		1.5	2.0	: 1
RF Input Power (CW)			20	W
RF Input Power (Pulsed, 10% Duty Cycle, 10us pulse width)			250	W
DC Power Dissipation		1		W
0.1dB Compression Point (P 0.1dB)		42		dBm
IIP3		55		dbm
Switching Speed		350	500	ns
Weight	1.41			Ounces
Impedance	50			Ω
Bias Current (+5V)	200			mA
Input / Output Connectors	SMA-Female			
Finish	Gold Plated			
Material	Aluminum			
Sealing	Epoxy Sealed (Standard)			
	Hermetically Sealed (Optional)			



Absolute Maximum Ratings

Biasing	+5V±10%
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Ordering Information

Part No.	Description
DBSR0206001350A	SP2T 6-13.5GHz PIN Diode Switch

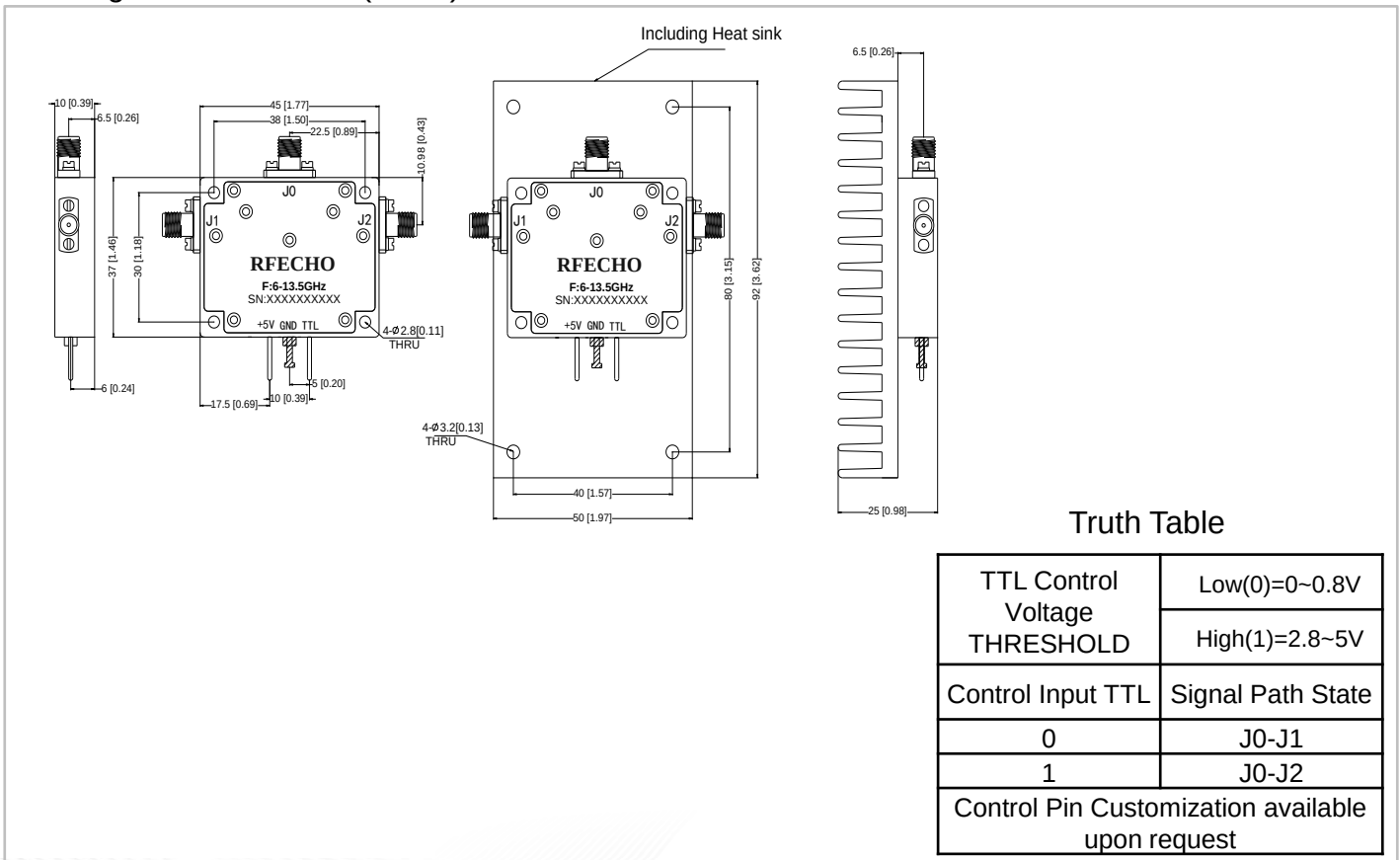
Environmental Specifications

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:

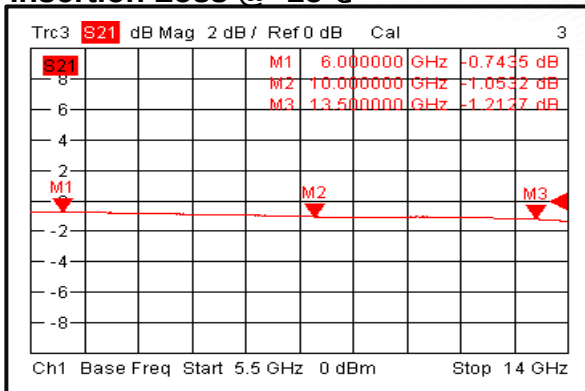
All Dimensions in mm (inches)

Housing Tolerances ±0.1(0.004)

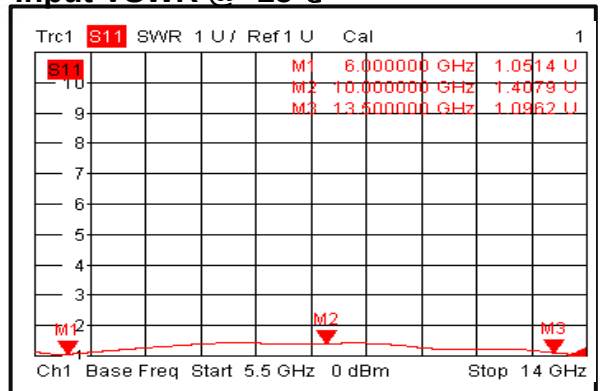




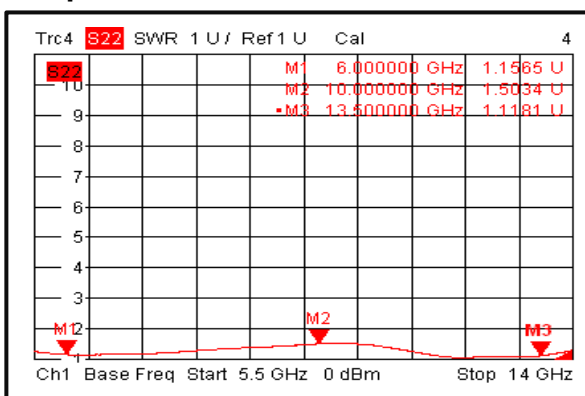
Insertion Loss @+25°C



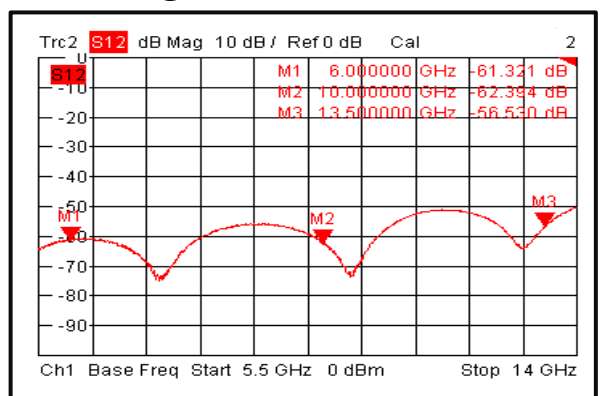
Input VSWR @+25°C



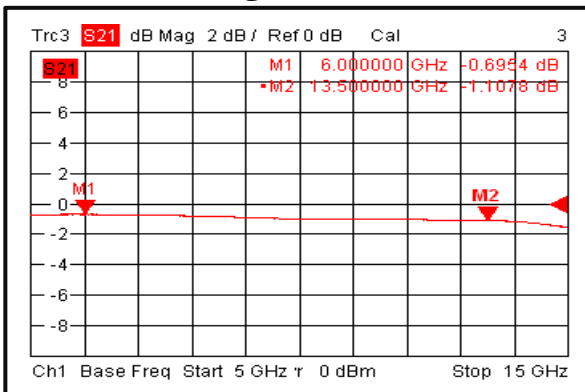
Output VSWR @+25°C



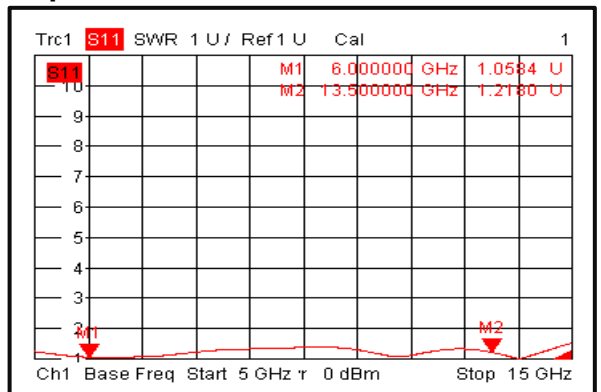
Isolation @+25°C



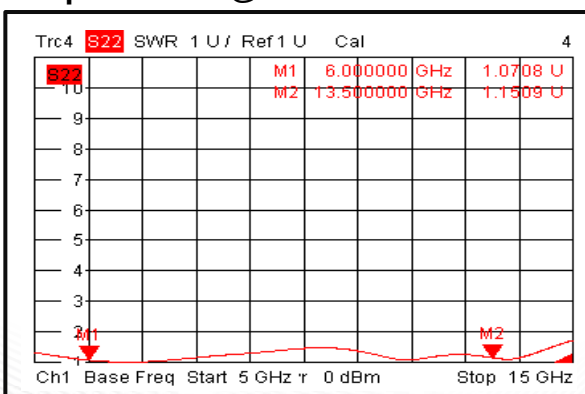
Insertion Loss @-40°C



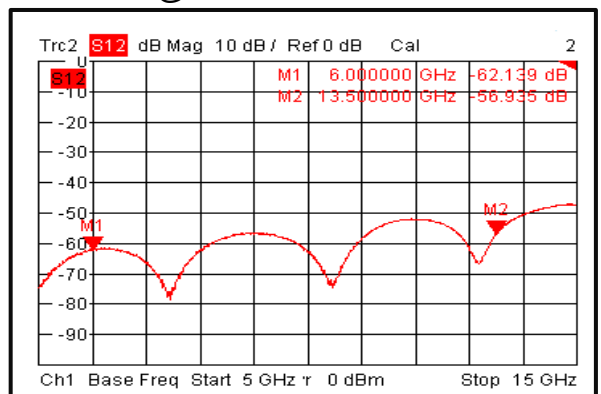
Input VSWR @-40°C



Output VSWR @-40°C

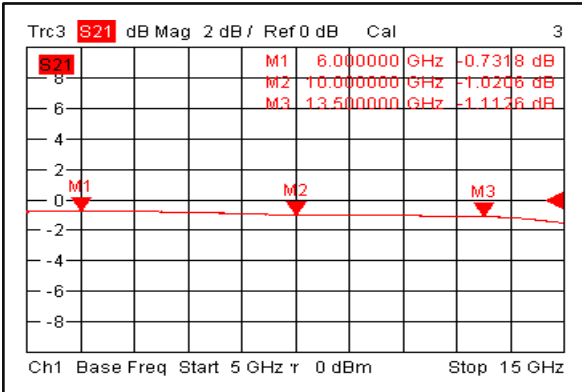


Isolation @-40°C

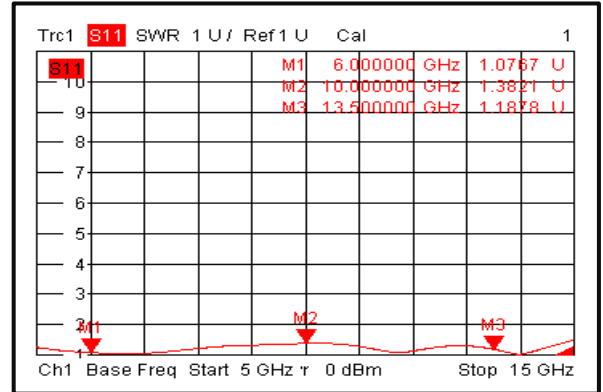




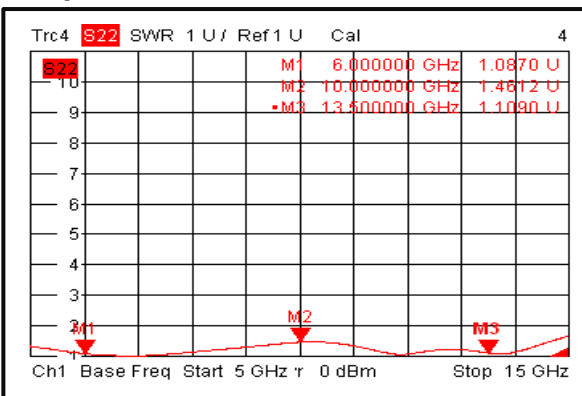
Insertion Loss @+85°C



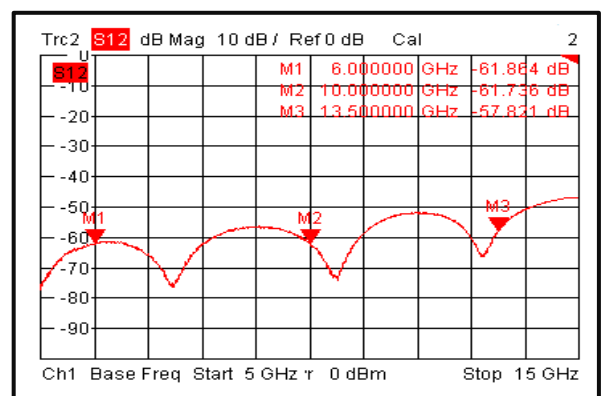
Input VSWR @+85°C



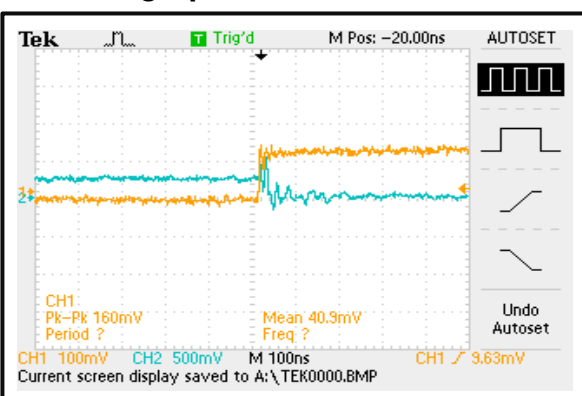
Output VSWR @+85°C



Isolation @+85°C



Switching Speed



Switching Speed

