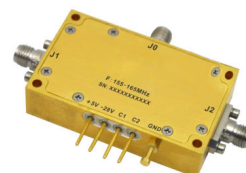




Absorptive 155-165MHz Coaxial SP2T Switch

Features

- Wide Band Operation 155-165MHz
- TTL compatible driver included
- 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	155-165			MHz
Insertion Loss		0.35	0.5	dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Isolation	40	50		dB
Input VSWR		1.2	1.3	: 1
Output VSWR		1.2	1.3	: 1
RF Input power (CW)			30	W
DC Power Dissipation		1.5		W
0.1dB Compression Point (P0.1dB)		45		dBm
IIP3		55		dBm
Switching Speed			1	us
Weight	1.41			ounces
Impedance	50			Ω
Bias Current (+5V/-28V)	200/10			mA
Input /Output Connectors	SMA-Female			
Finish	Gold Plated			
Material	Aluminum			
Sealing	Hermetically Sealed (optional)			

Absolute Maximum Ratings

Biassing	+5V $\pm$ 10%/-28V $\pm$ 10%
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Ordering Information

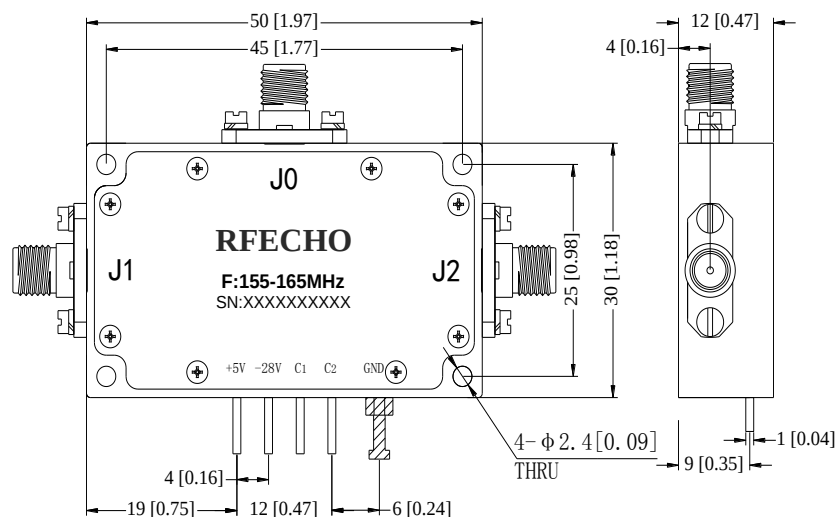
Part No.	Description
DBSA0200150016A	SP2T 155-165MHz PIN Diode Switch

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)

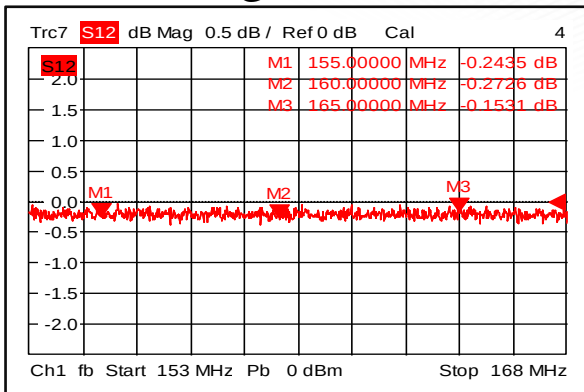


Truth Table

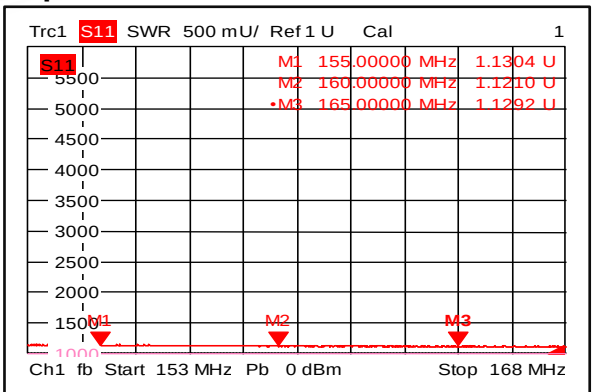
TTL Control Voltage THRESHOLD		Low(0)=0~0.8V
		High(1)=2.8~5V
Control Input TTL		Signal Path State
C1	C2	
0	1	J0-J1
1	0	J0-J2
Control Pin Customization available upon request		



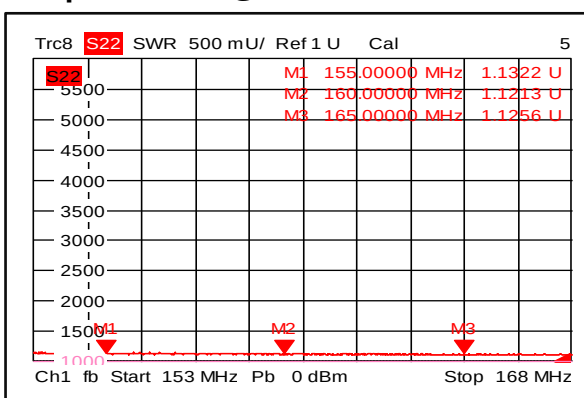
Insertion Loss @+25°C



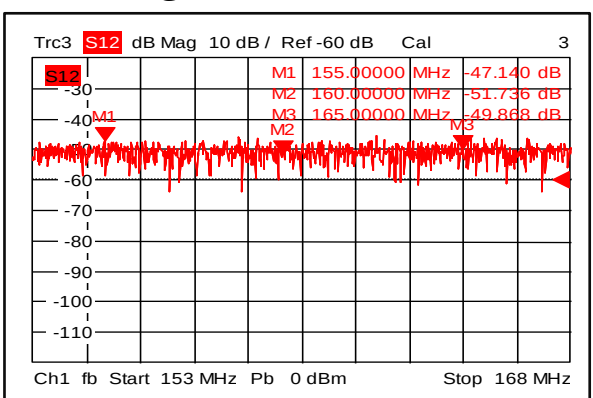
Input VSWR @+25°C



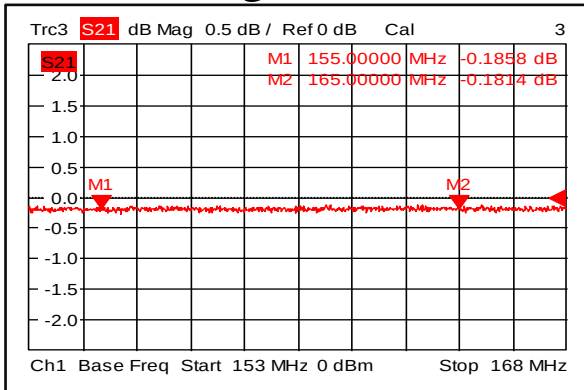
Output VSWR @+25°C



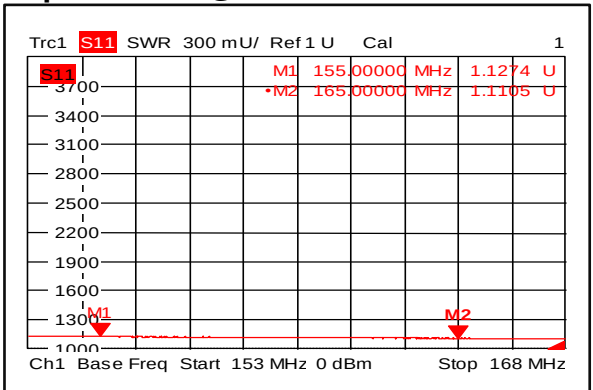
Isolation @+25°C



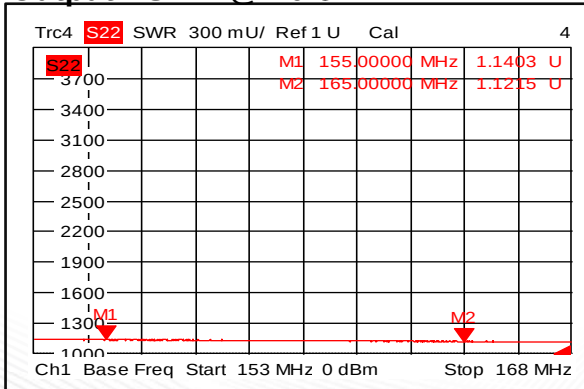
Insertion Loss @-40°C



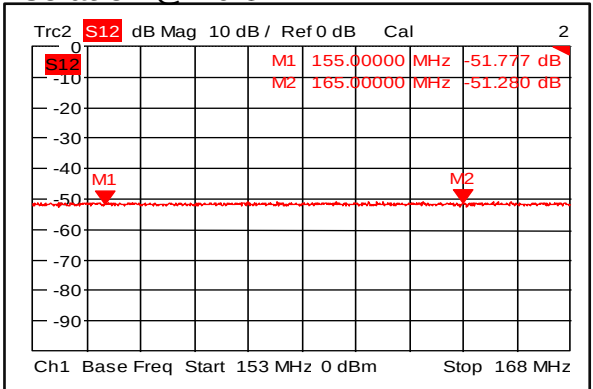
Input VSWR @-40°C



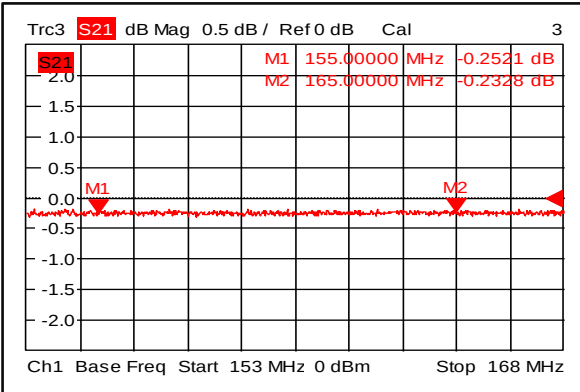
Output VSWR @-40°C



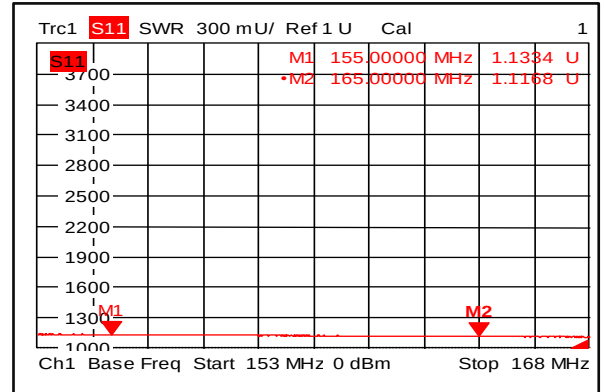
Isolation @-40°C



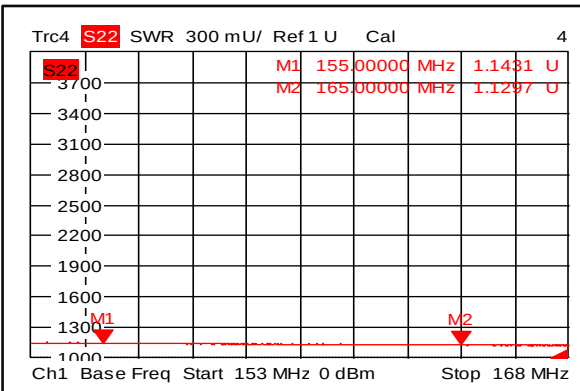
Insertion Loss @+85°C



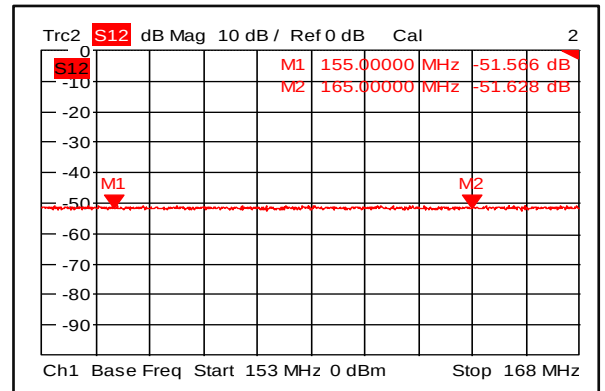
Input VSWR @+85°C



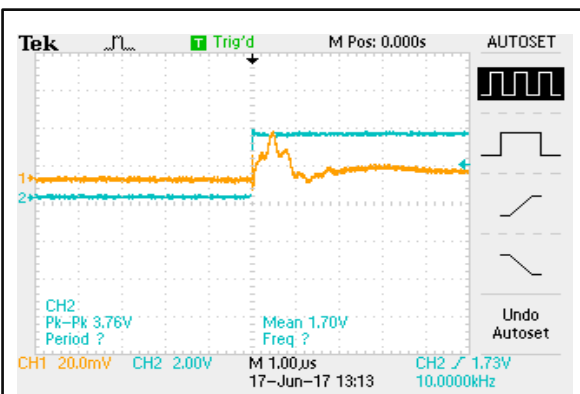
Output VSWR @+85°C



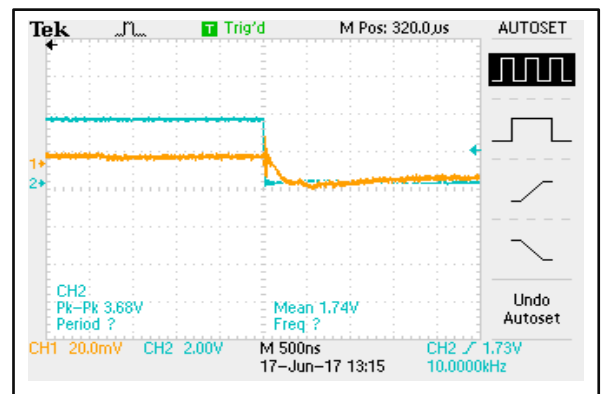
Isolation @+85°C



Switching Speed



Switching Speed





RFecho
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