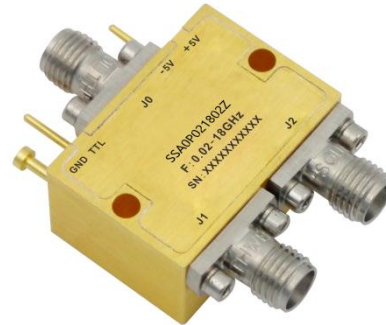


Features

- Ultra Wide Band Operation 0.02-18GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Customization available upon request
- Low Power Cold Switching



Typical Applications

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

RF Microwave & VSAT
Fiber Optics

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	0.02~6		6~12		12~18					GHz
Insertion Loss		1.8	2.0		4.0	4.2		4.3	4.8	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ ° C
Isolation	75	80		70	75		60	68		dB
Input VSWR		1.4	1.6		1.5	1.8		1.6	1.8	: 1
Output VSWR		1.4	1.6		1.5	1.8		1.6	1.8	: 1
RF Input Power			30			30			30	dBm
DC Power Dissipation		0.4			0.4			0.4		W
IIP3		45			45			43		dBm
Switching Speed	200 Max.									ns
Weight	0.7 Max.									ounces
Impedance	50									Ω
Bias Current (+5V / -5V)	80/50 Max.									mA
Input / Output Connectors	SMA-Female									
Finish	Gold Plated									
Material	Aluminum									
Sealing	Hermetically Sealed (Optional)									

SALUKI TECHNOLOGY INC.

Absorptive 0.02-18GHz Coaxial SP2T Switch

Absolute Maximum Ratings

Biasing	+5V ± 10%/-5V ± 10%
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Note: TTL pins cannot be connected to the negative voltage otherwise the internal driver will be damaged.

Ordering Information

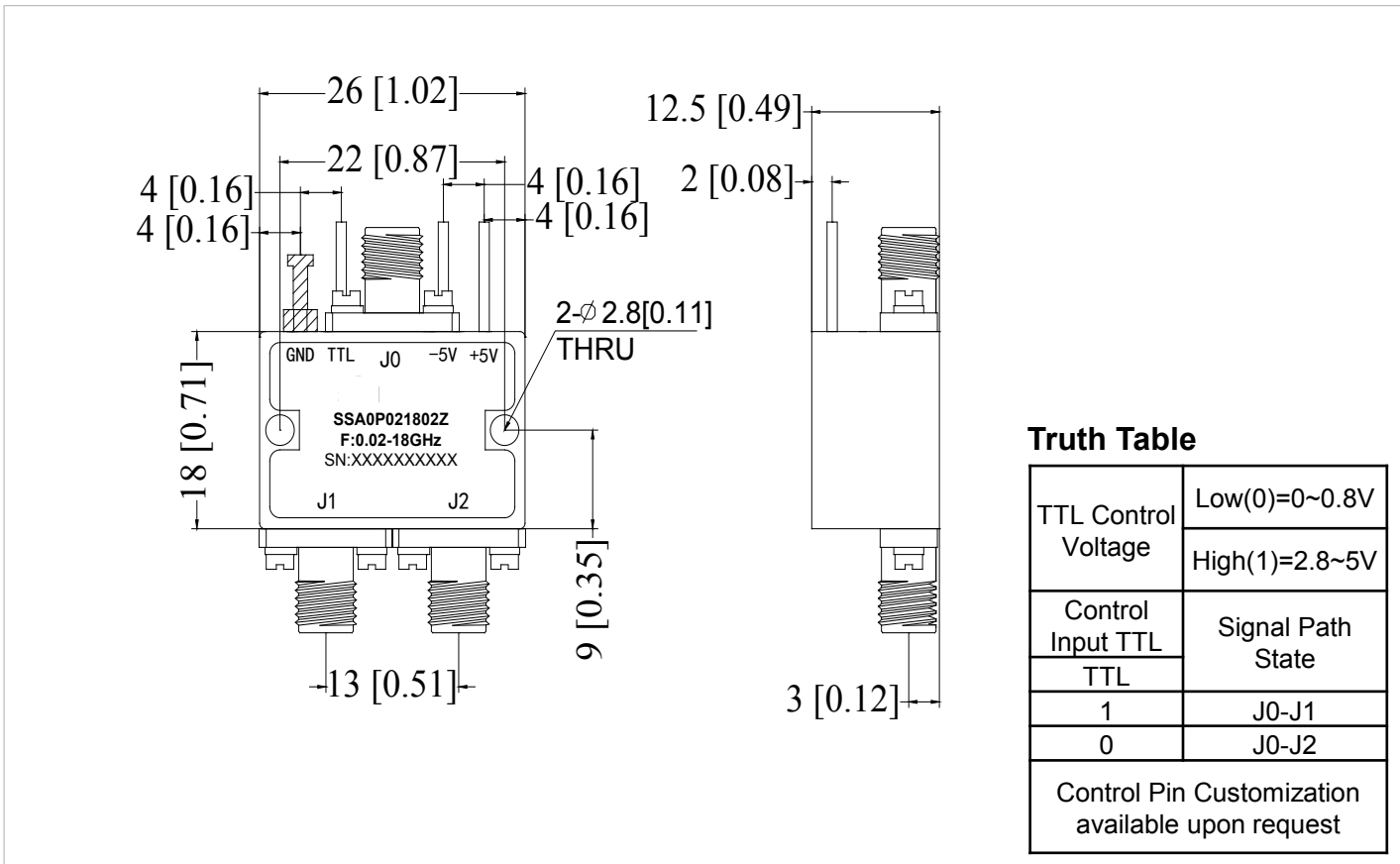
Part No.	Description
SSA0P021802Z	SP2T 0.02-18GHz PIN Diode Switch

Environmental Specifications

Operational Temperature	-40°C~+85°C(Case Temperature)
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

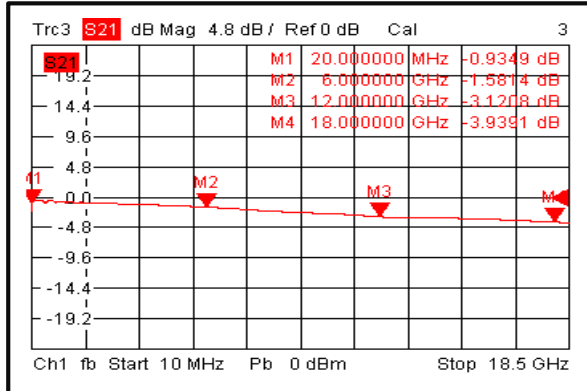
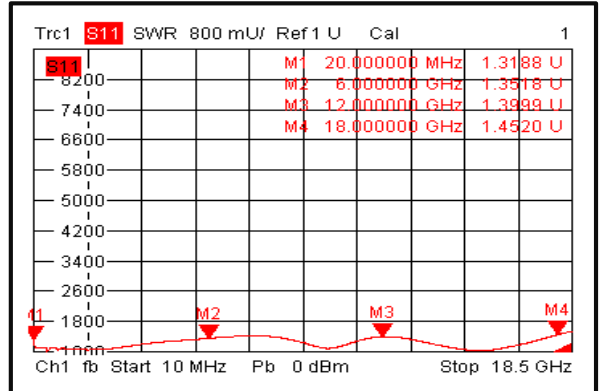
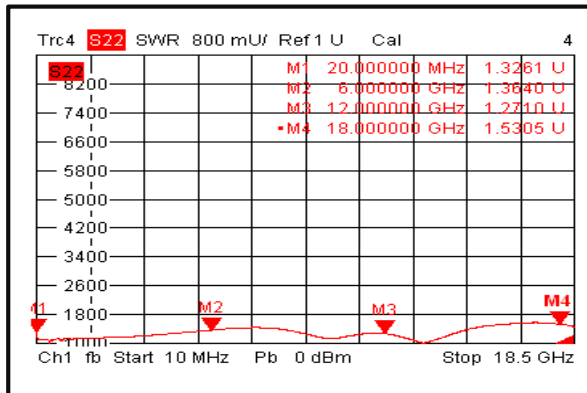
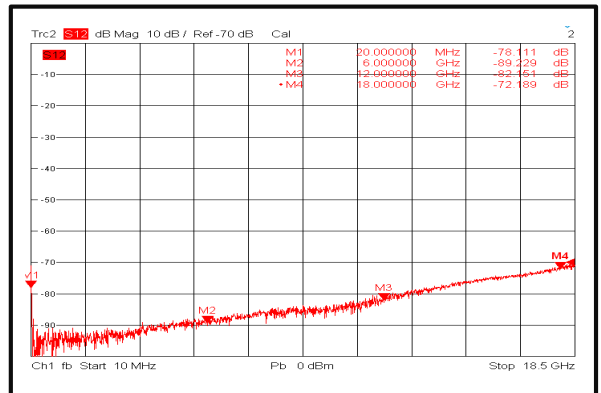
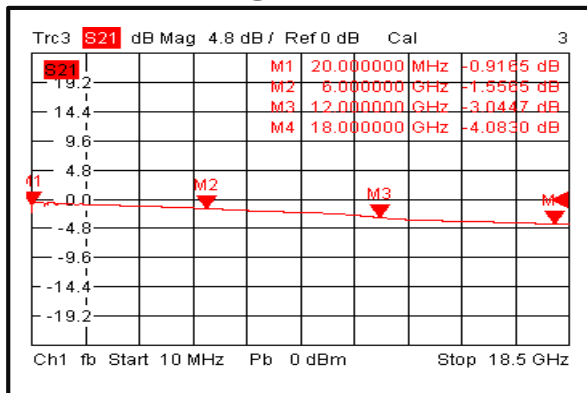
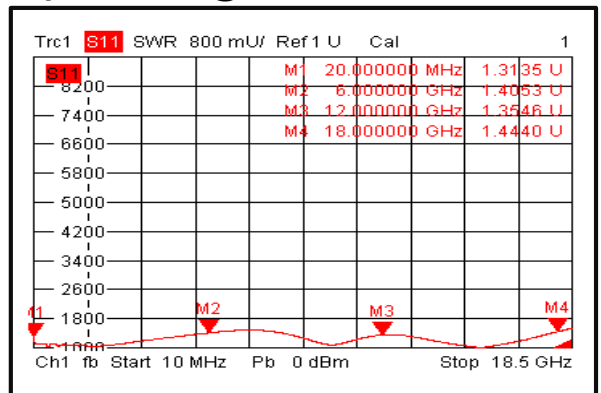
Outline Drawing:

All Dimensions in mm (inches) Housing Tolerances ±0.1 (0.004)

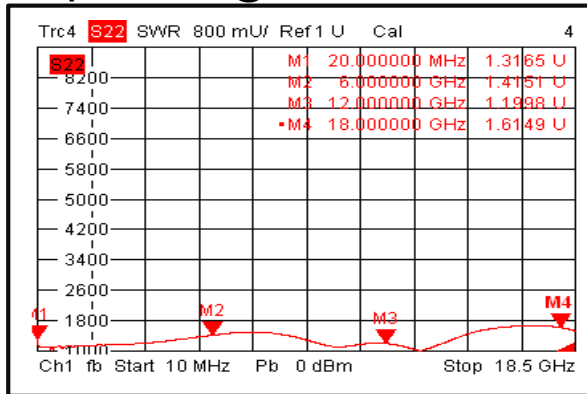


Truth Table

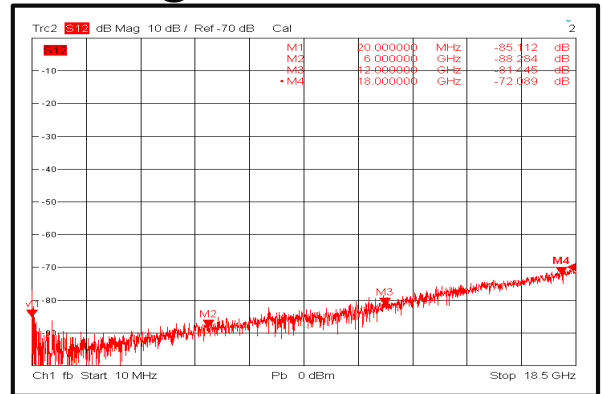
TTL Control Voltage	Low(0)=0~0.8V
	High(1)=2.8~5V
Control Input TTL	Signal Path State
TTL	
1	J0-J1
0	J0-J2
Control Pin Customization available upon request	

Insertion Loss @+25°C

Input VSWR @+25°C

Output VSWR @+25°C

Isolation @+25°C

Insertion Loss @-40°C

Input VSWR @-40°C


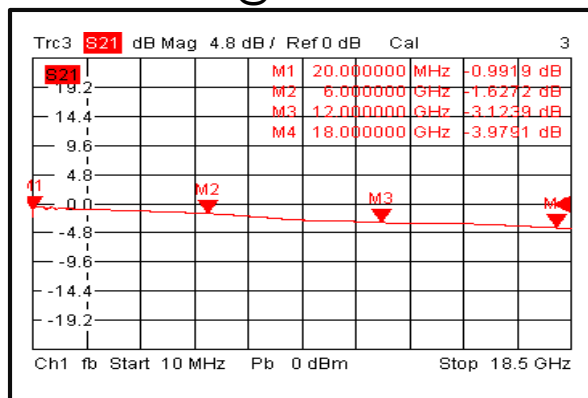
Output VSWR @-40°C



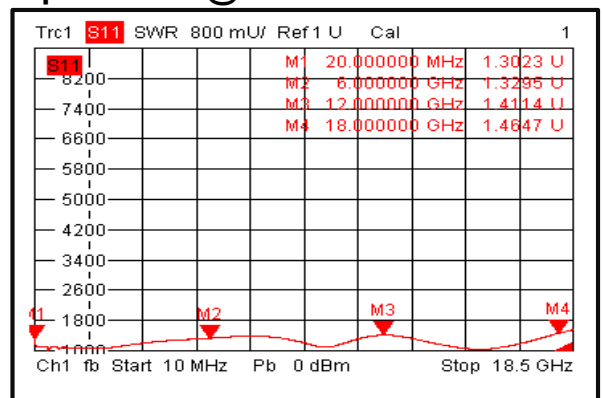
Isolation @-40°C



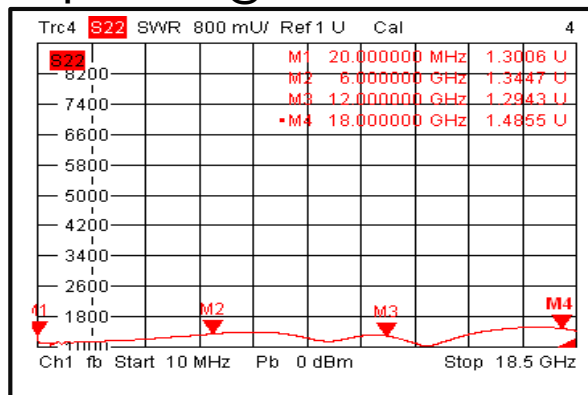
Insertion Loss @+85°C



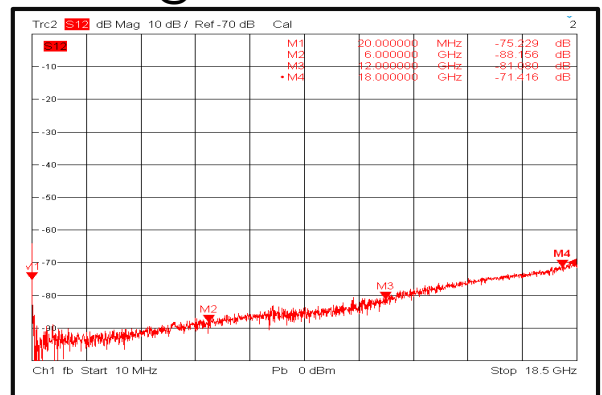
Input VSWR @+85°C



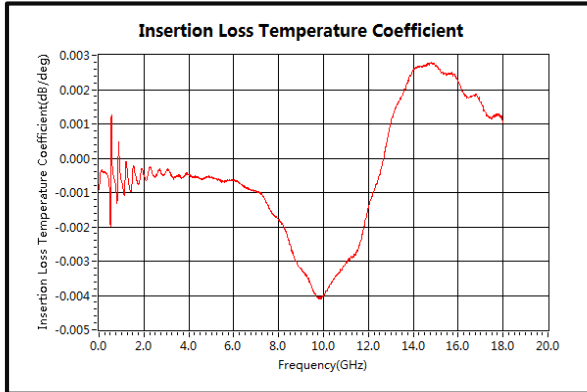
Output VSWR @+85°C



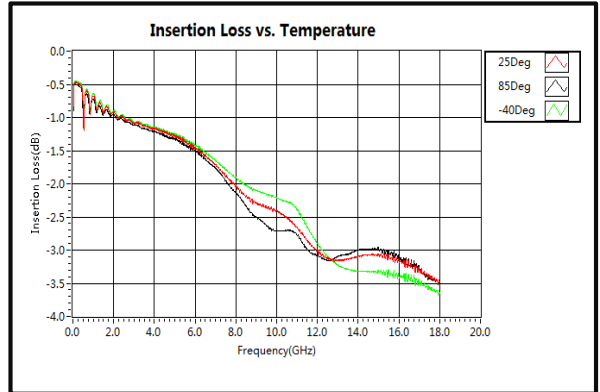
Isolation @+85°C



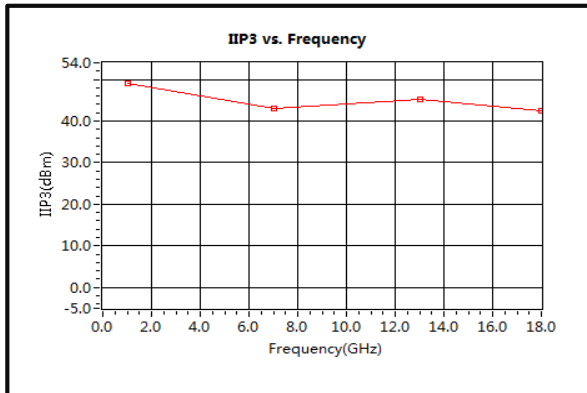
Insertion Loss Temperature Coefficient



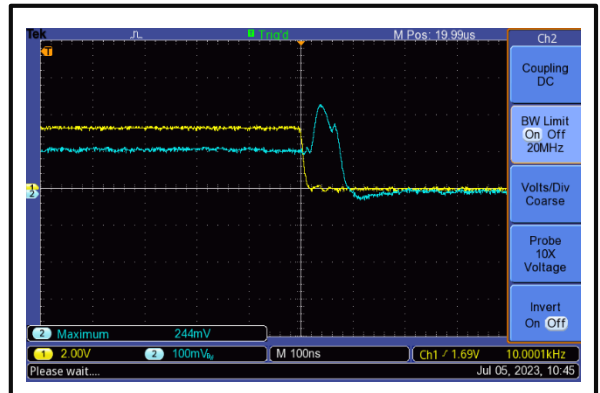
Insertion Loss vs. Temperature



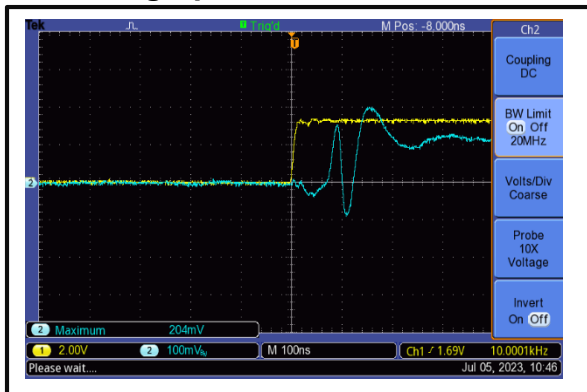
IIP3



Switching Speed



Switching Speed



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