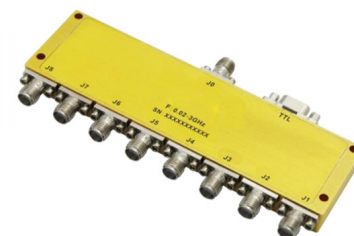


Absorptive 0.02-13GHz Coaxial SP8T Switch



Features

- Ultra wide Band Operation 0.02-13GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Customization available upon request

Typical Applications

- Wireless Infrastructure
 - Military & Aerospace
 - Fiber Optics
- RF Microwave & VSAT
Test Instrument

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	0.02-3			3-13			GHz
Insertion Loss		1.5	2.0		5.5	6.5	dB
Insertion Loss Temperature Coefficient		0.003			0.003		dB/ °C
Isolation	65	75		50	60		dB
Input VSWR		1.3	1.5		1.5	2.0	: 1
Output VSWR		1.3	1.5		1.5	2.0	: 1
RF Input Power (CW)			30			30	dBm
DC Power Dissipation		1.8			1.8		W
0.1dB Compression Point (P0.1dB)		30			30		dBm
IIP3		55			55		dBm
Switching Speed		150	200		150	200	ns
Weight	2.5 Max.						ounces
Impedance	50						Ω
Bias Current (+5V / -5V)	350/50 Max.						mA
Input / Output Connectors	SMA-Female						
Interface and control connector	Micro-D9(Female)						
Finish	Gold Plated						
Material	Aluminum						
Sealing	Hermetically Sealed (optional)						

Absolute Maximum Ratings

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

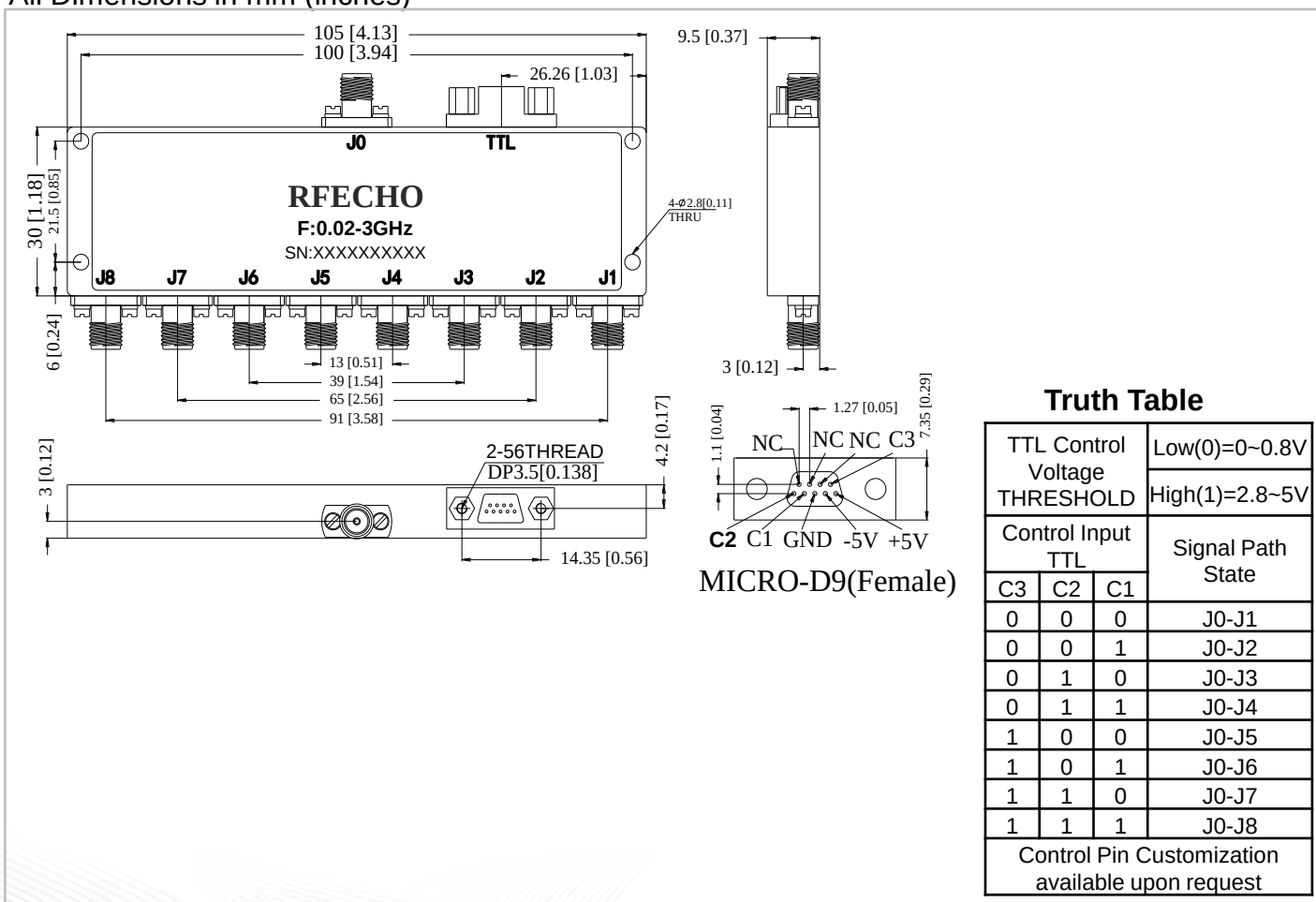
Part No.	ECCN	Description
DBSA0800020300A	EAR99	SP8T 0.02-13GHz PIN Diode Switch

Environmental Specifications

Operational Temperature	-45°C~+85°C
Storage Temperature	-55°C~+125°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

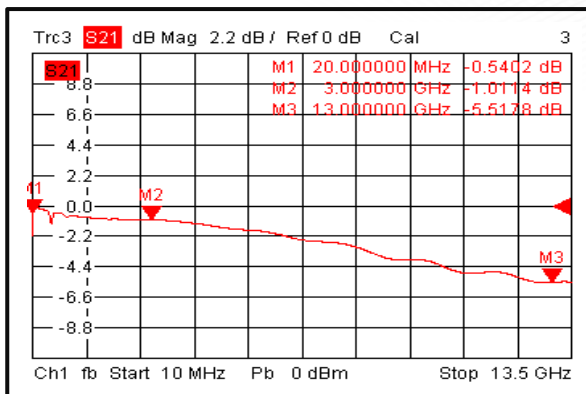
Outline Drawing:

All Dimensions in mm (inches)

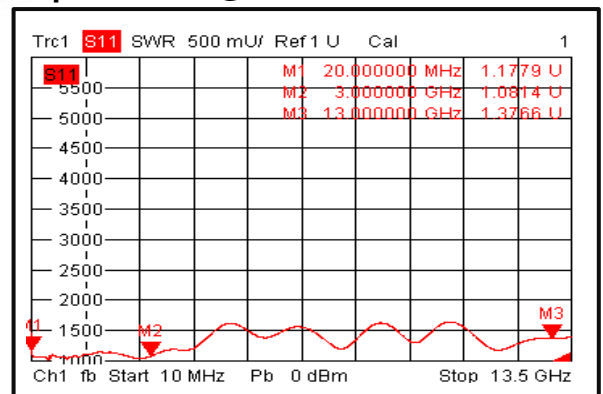




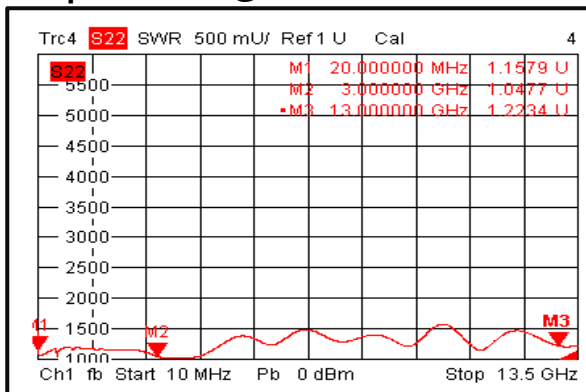
Insertion Loss @+25°C



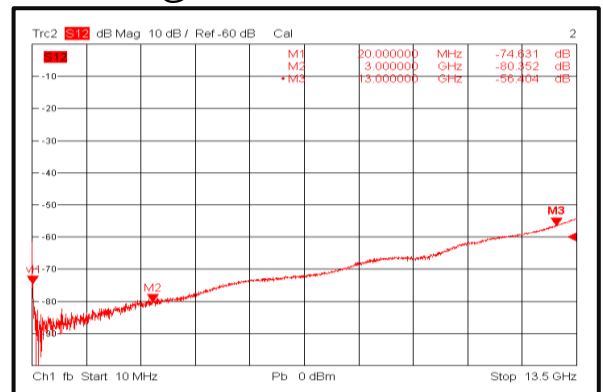
Input VSWR @+25°C



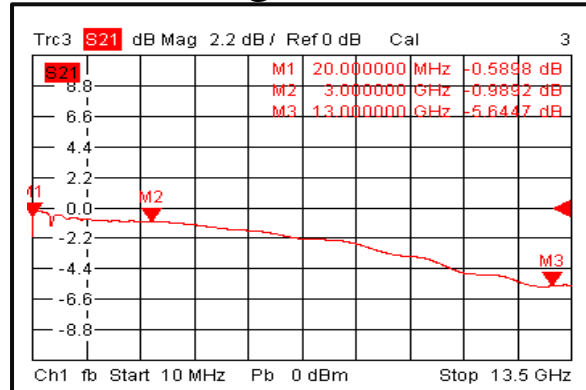
Output VSWR @+25°C



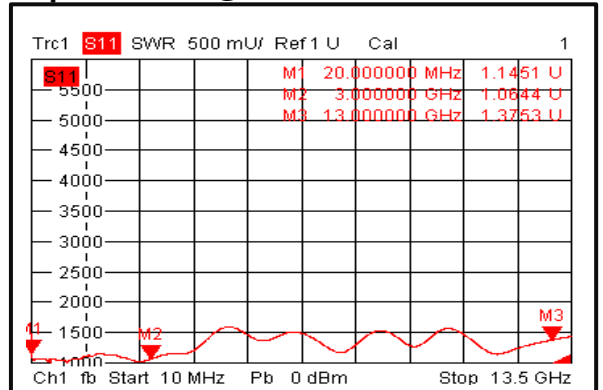
Isolation @+25°C



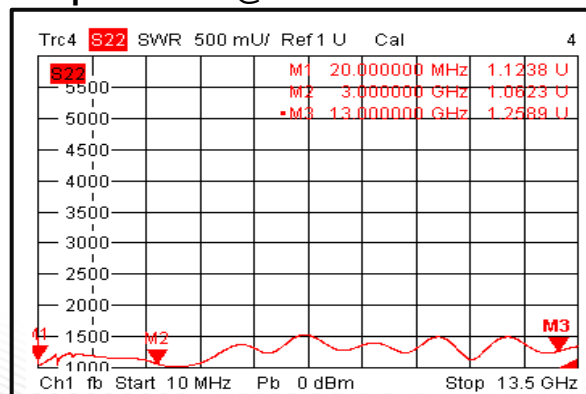
Insertion Loss @-45°C



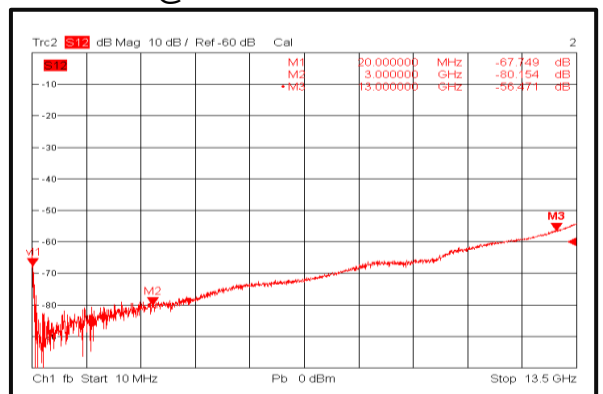
Input VSWR @-45°C



Output VSWR @-45°C

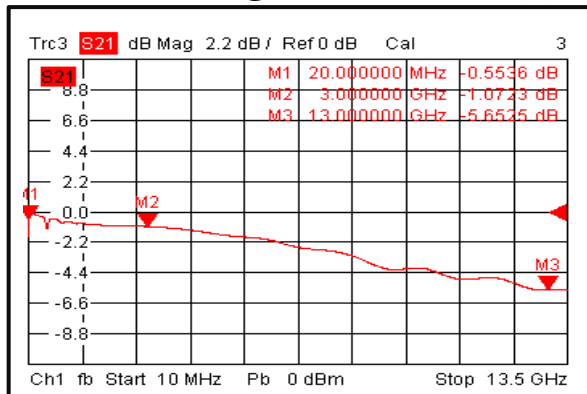


Isolation @-45°C

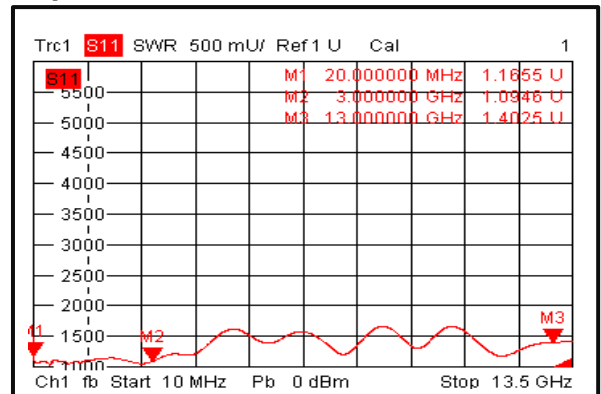




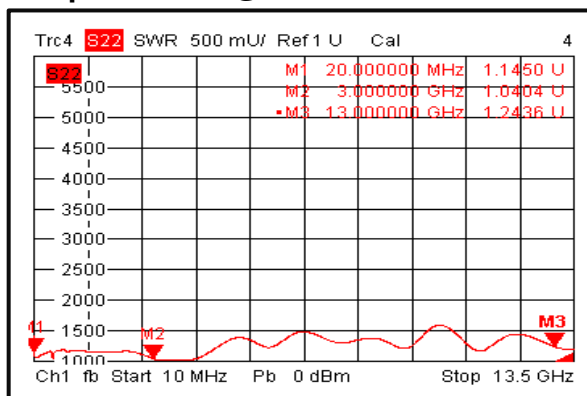
Insertion Loss @+85°C



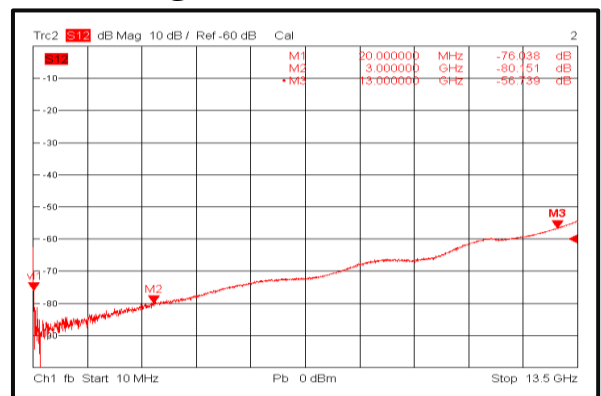
Input VSWR @+85°C



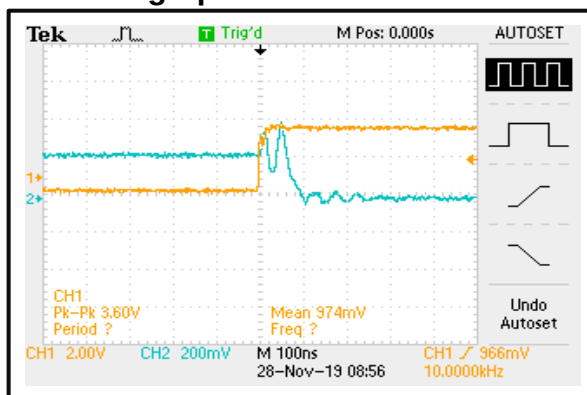
Output VSWR @+85°C



Isolation @+85°C



Switching Speed



Switching Speed

