

## Features

- Wide Band Operation 0.5-43.5GHz
- USB Controlled and Powered.
- Low Insertion Loss and High Isolation
- Customization available upon request
- Control SW included.



## Typical Applications

- Wireless Infrastructure
- Military & Aerospace
- Fiber Optics

RF Microwave & VSAT  
Test Instrument

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	0.5		8	8		26.5	26.5		43.5	GHz
Insertion Loss		2.0	2.5		4.0	4.5		4.5	5.2	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ °C
Isolation	60	85		50	60		45	55		dB
Input VSWR		1.6	2.0		2.5	2.8		1.8	2.5	: 1
Output VSWR		1.6	2.0		2.5	2.8		1.8	2.5	: 1
RF Input power (CW)			23			23			23	dBm
DC Power Dissipation		0.6			0.6			0.6		W
0.1dB Compression Point (P 0.1dB)		23			23			23		dBm
IIP3		55			50			45		dBm
Weight	1.06									ounces
Impedance	50									Ω
Bias Current	110									mA
Switching Speed	200									ms
Control Interface	USB 2.0 (Control Cable Included)									
Input / Output Connectors	2.92mm-Female									
Finishing	Nickel Plated									
Material	Aluminum									

**QOTANA TECHNOLOGIES**

Absorptive Coaxial SP2T USB Switch 0.5 – 43.5GHz

**Absolute Maximum Ratings**

RF Input Power	+23dBm
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**Ordering Information**

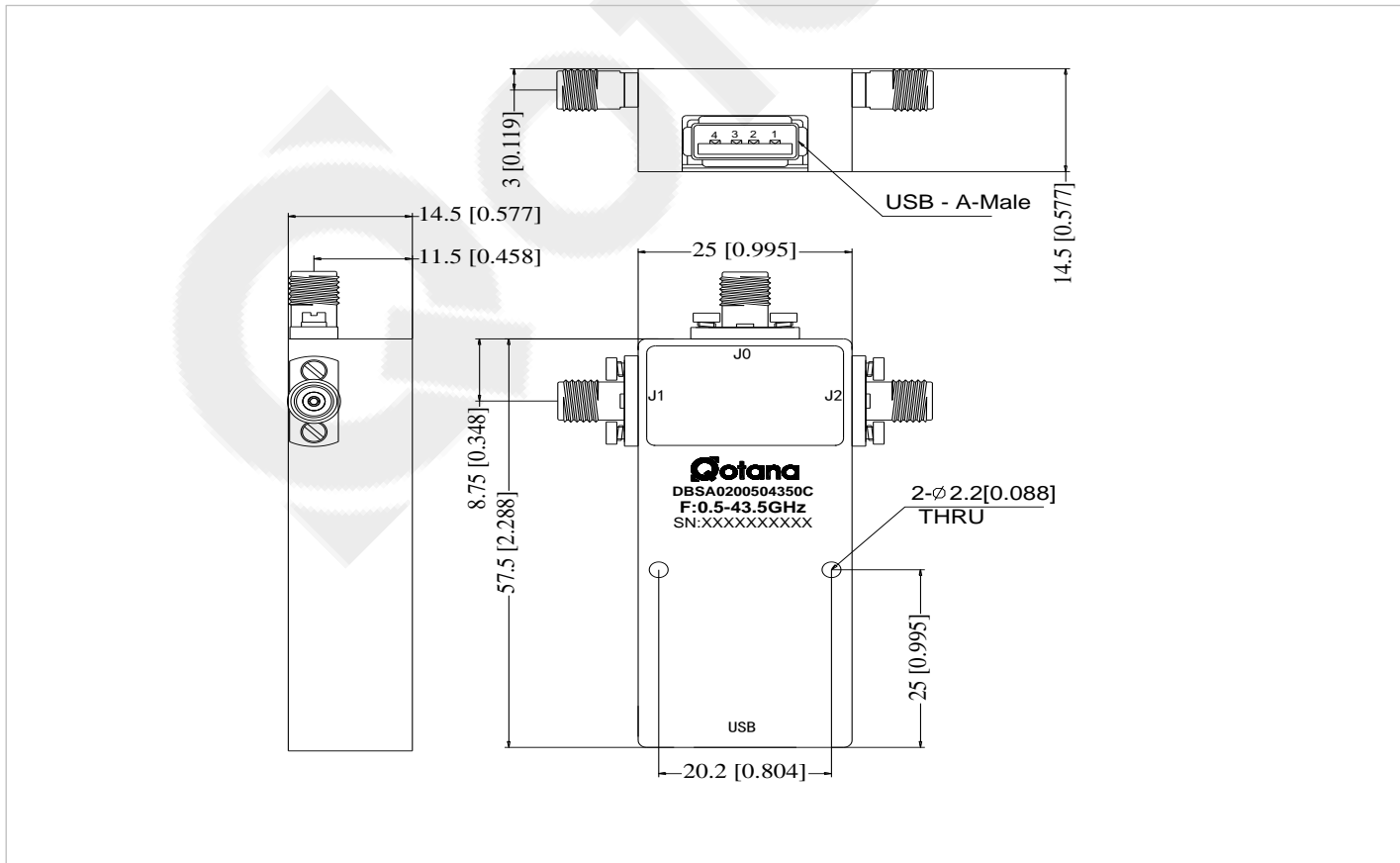
Part No.	ECCN	Description
DBSA0200504350C	EAR99	SP2T 0.5-43.5GHz PIN Diode Switch

**Environmental Specifications**

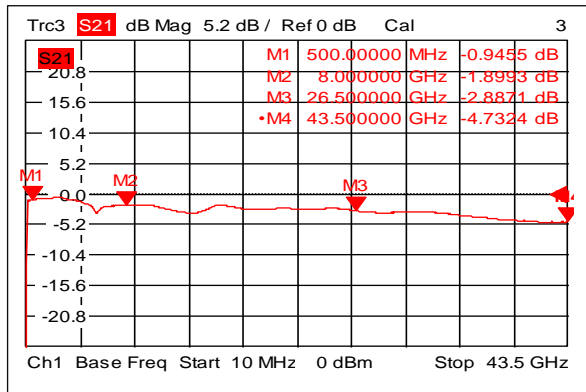
Operational Temperature (°C)	-40 ~ +85
Storage Temperature (°C)	-55 ~ +125
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Shock	20G for 11msec half sine wave,3 axis both directions

**Outline Drawing:**

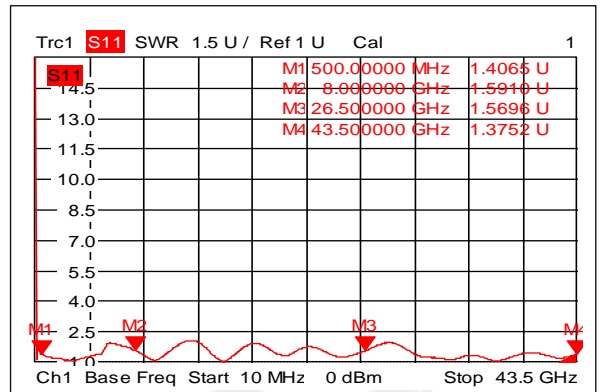
All Dimensions in mm (inches)



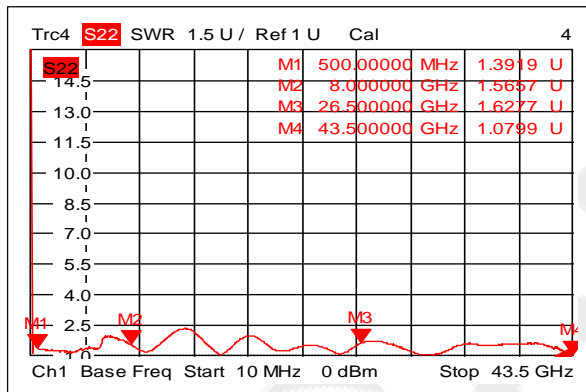
Insertion Loss @+25°C



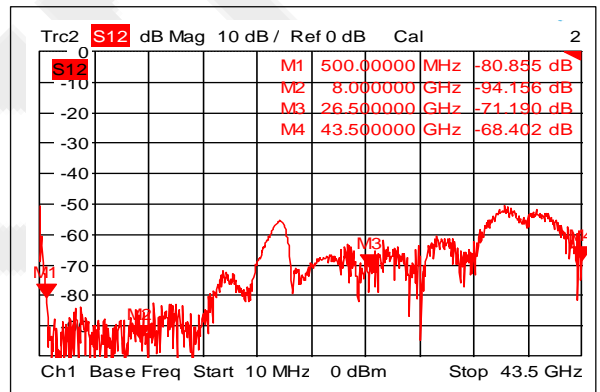
Input VSWR @+25°C



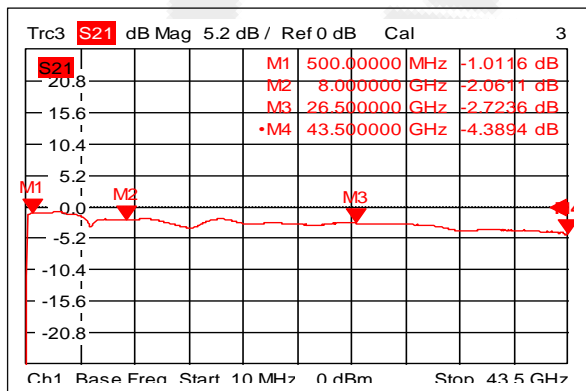
Output VSWR @+25°C



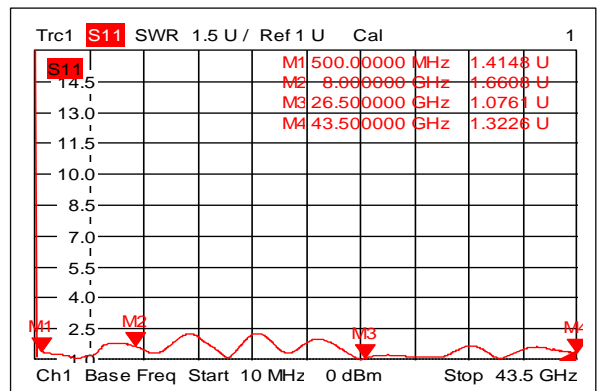
Isolation @+25°C



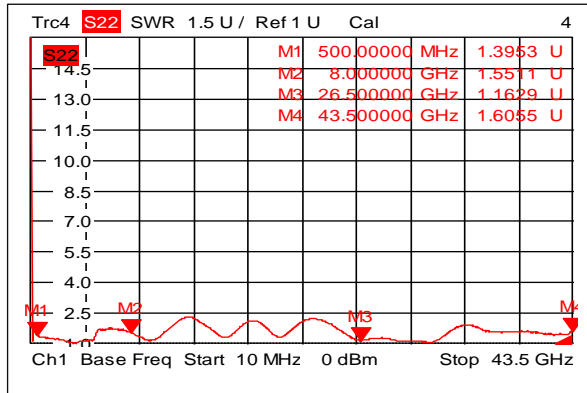
Insertion Loss @-45°C



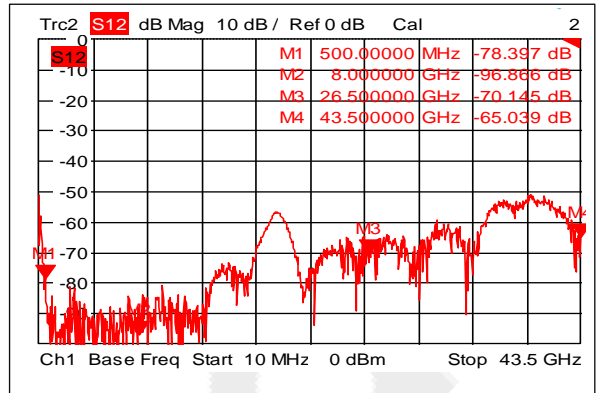
Input VSWR @-45°C



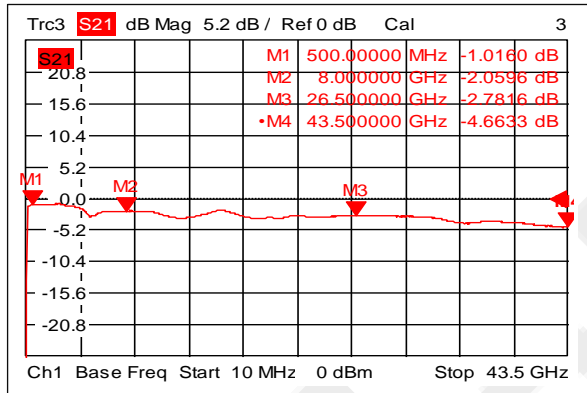
Output VSWR @-45°C



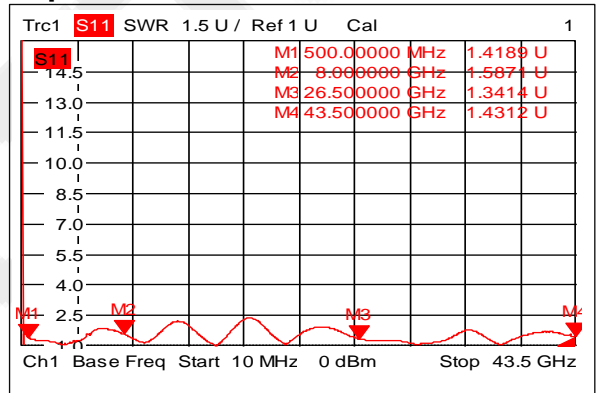
Isolation @-45°C



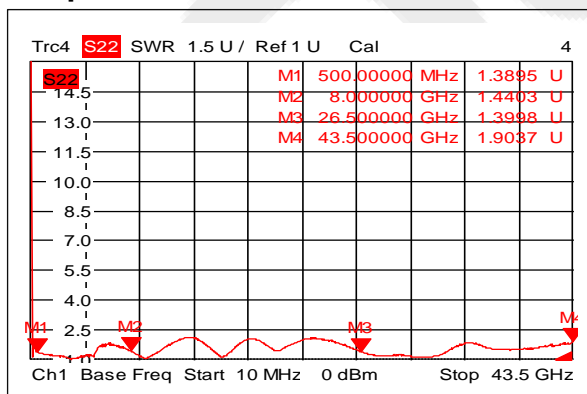
Insertion Loss @+85°C



Input VSWR @+85°C



Output VSWR @+85°C



Isolation @+85°C

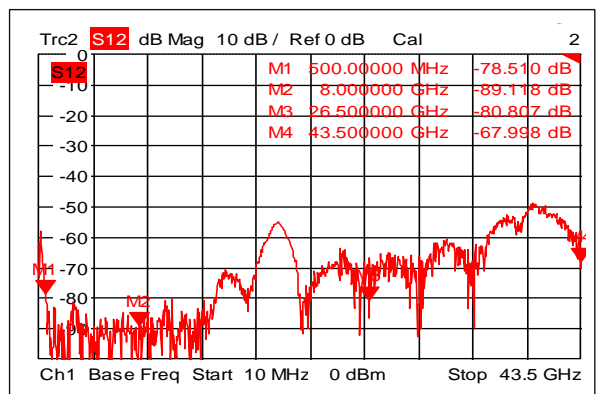
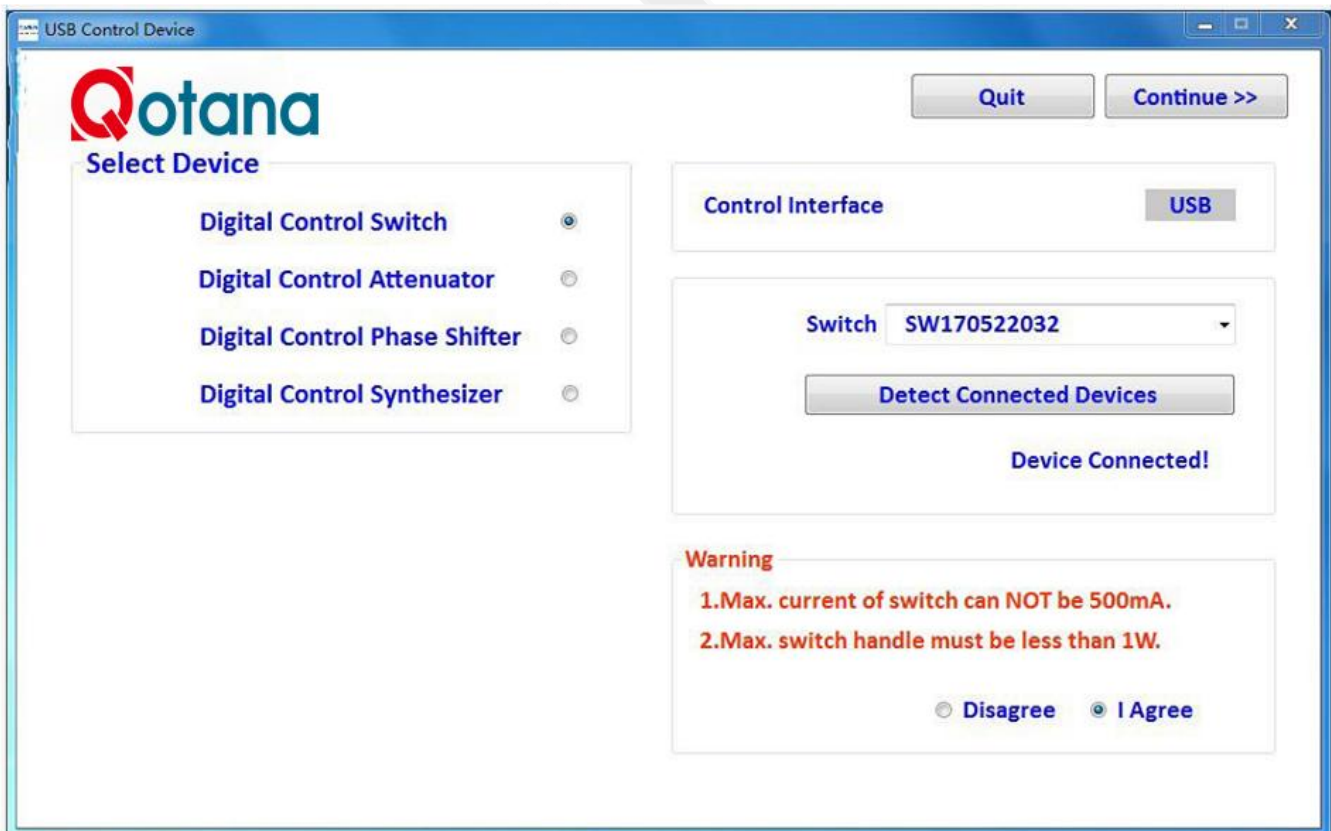
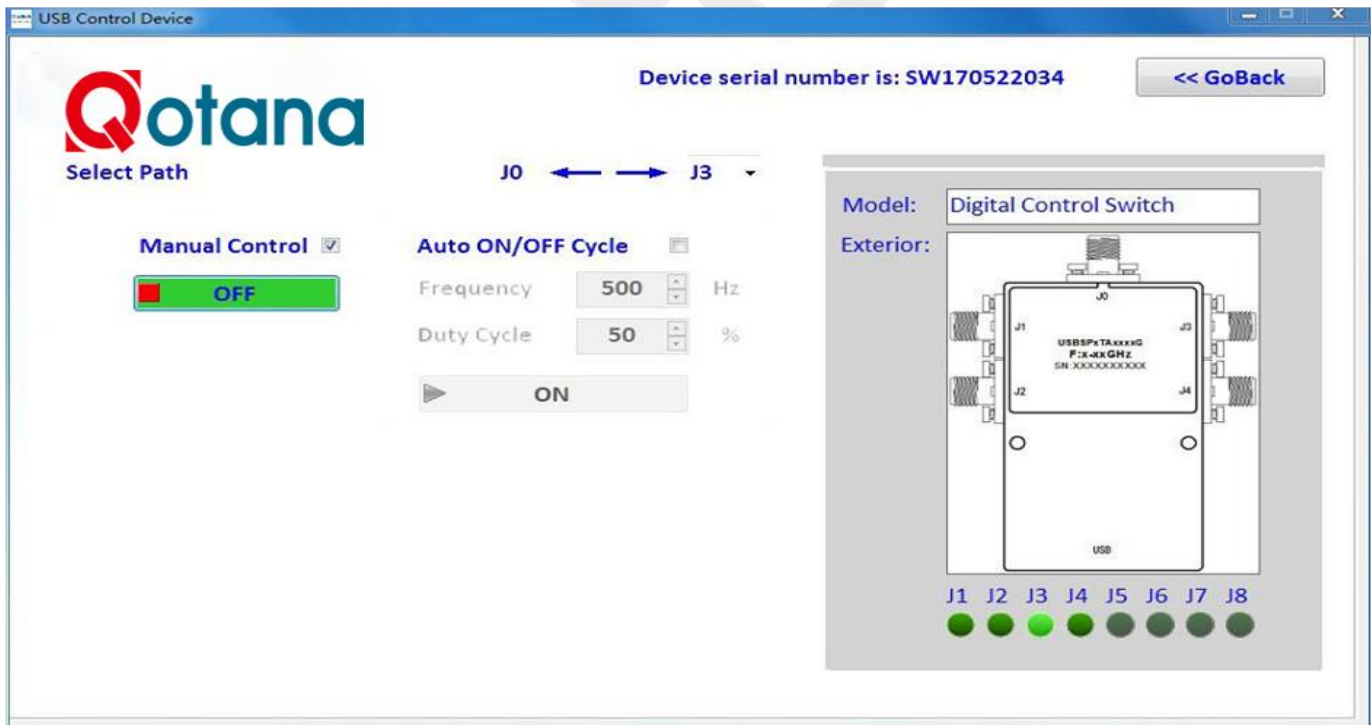
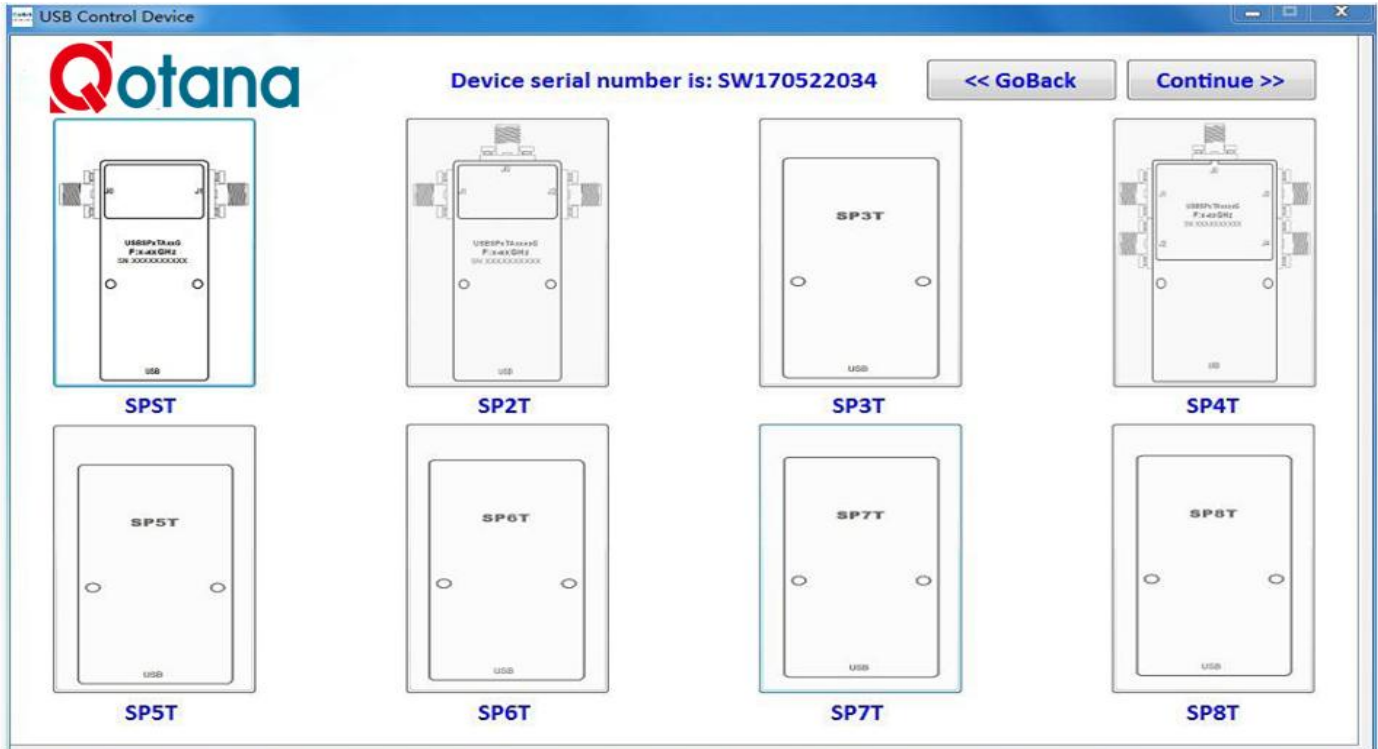




Figure 1 (USB Control Panel)





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