

### Характеристики:

- Широкий рабочий диапазон 0,1 - 50 ГГц
- Управление через драйвер TTL
- Высокая скорость переключения
- Низкие вносимые потери и высокая изоляция
- Возможны изменения по запросу



### Области применения:

- Беспроводные сети
- 5G сети
- Оборудование для тестирования и измерений
- Микроэлектроника и спутниковая связь
- Оптоволоконные сети

| Parameters                             | Min.                           | Typ.  | Max.    | Min. | Typ.  | Max.    | Min. | Typ.  | Max. | Units   |
|--|--------------------------------|-------|---------|------|-------|---------|------|-------|------|---------|
| Frequency Range                        | 0.1-18                         |       | 18-43.5 |      |       | 43.5-50 |      |       | GHz  |         |
| Insertion Loss                         |                                | 3.3   | 4       |      | 4.5   | 5       |      | 6.2   | 7.5  | dB      |
| Insertion Loss Temperature Coefficient |                                | 0.003 |         |      | 0.003 |         |      | 0.003 |      | dB/ ° C |
| Isolation                              | 50                             | 65    |         | 40   | 50    |         | 50   | 55    |      | dB      |
| Input VSWR                             |                                | 1.8   | 2.5     |      | 2.5   | 3       |      | 2     | 2.5  | : 1     |
| Output VSWR                            |                                | 1.8   | 2.5     |      | 2.5   | 3       |      | 2     | 2.5  | : 1     |
| RF Input Power                         |                                |       | 23      |      |       | 23      |      |       | 23   | dBm     |
| DC Power Dissipation                   |                                | 0.8   |         |      | 0.8   |         |      | 0.8   |      | W       |
| 0.1dB Compression Point ( P0.1dB )     |                                | 23    |         |      | 23    |         |      | 23    |      | dBm     |
| IIP3                                   |                                | 45    |         |      | 45    |         |      | 45    |      | dBm     |
| Switching Speed                        | 50Typ 100Max.                  |       |         |      |       |         |      |       |      | ns      |
| Weight                                 | 0.8 Max.                       |       |         |      |       |         |      |       |      | Ounces  |
| Impedance                              | 50                             |       |         |      |       |         |      |       |      | Ω       |
| Bias Current ( +5V / -5V )             | 100/50 Max.                    |       |         |      |       |         |      |       |      | mA      |
| Input / Output Connectors              | 2.4mm-Female                   |       |         |      |       |         |      |       |      |         |
| Finish                                 | Gold Plated                    |       |         |      |       |         |      |       |      |         |
| Material                               | Aluminum                       |       |         |      |       |         |      |       |      |         |
| Sealing                                | Hermetically Sealed (Optional) |       |         |      |       |         |      |       |      |         |

## Поглощающий коаксиальный переключатель SP2T 0,1 - 50 ГГц

### Absolute Maximum Ratings

|         |                     |
|---------|---------------------|
| Biasing | +5V ± 10%/-5V ± 10% |
|---------|---------------------|

Note: TTL pins cannot be connected to the negative voltage otherwise the internal driver will be damaged.

### Ordering Information

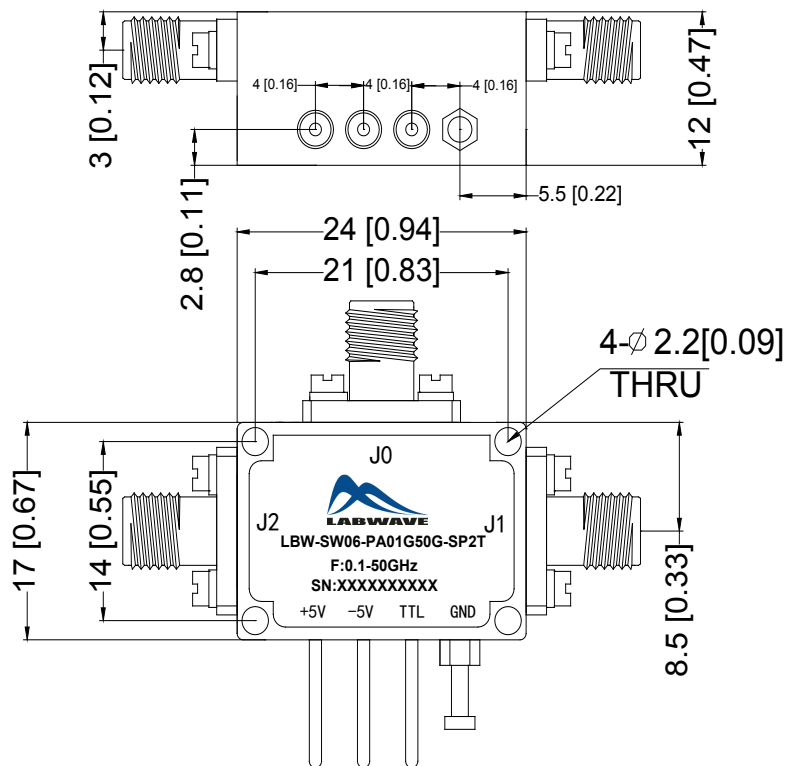
| Part No.               | Description                     |
|------------------------|---------------------------------|
| LBW-SW06-PA01G50G-SP2T | SP2T 0.1-50GHz PIN Diode Switch |

### 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)

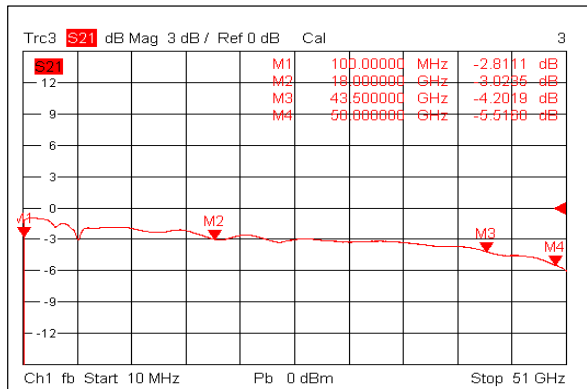


### Truth Table

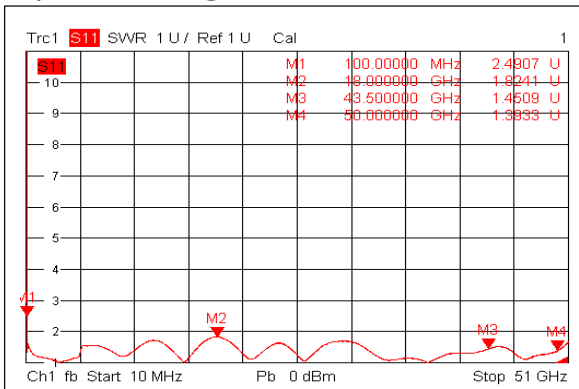
|  |                   |
|--|-------------------|
| TTL Control Voltage THRESHOLD                    | Low(0)=0~0.8V     |
|  | High(1)=2.8~5V    |
| Control Input TTL                                | Signal Path State |
| 1  | J0-J2             |
| 0  | J0-J1             |
| Control Pin Customization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

## Поглощающий коаксиальный переключатель SP2T 0,1 - 50 ГГц

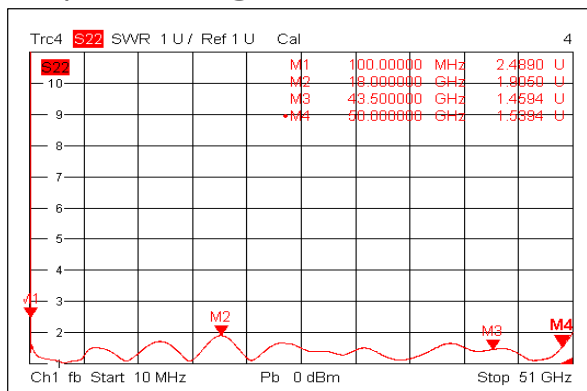
### Insertion Loss @+25°C



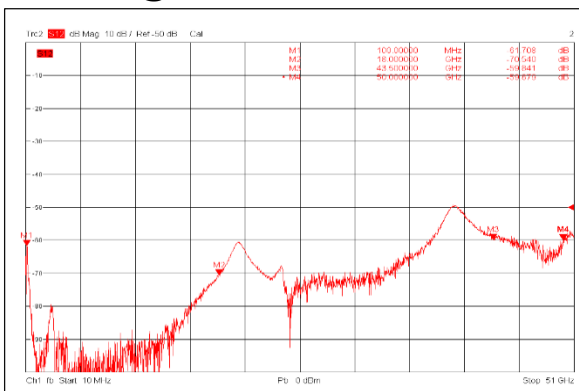
### Input VSWR @+25°C



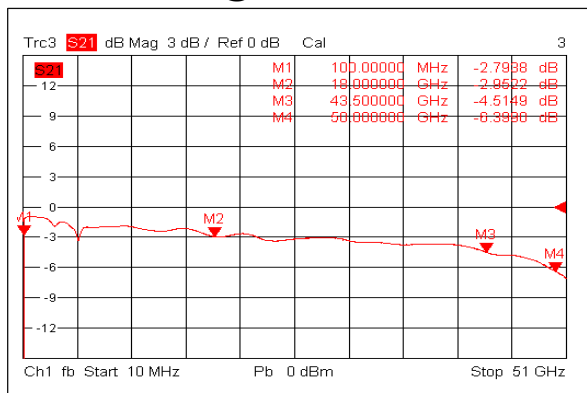
### Output VSWR @+25°C



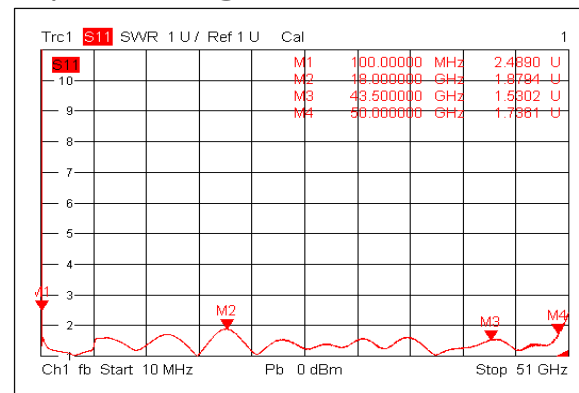
### Isolation @+25°C



### Insertion Loss @-40°C

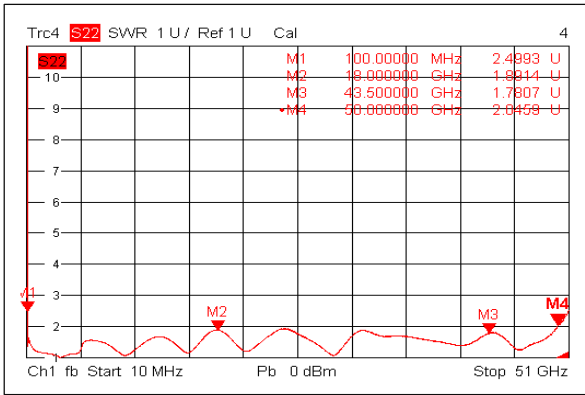


### Input VSWR @-40°C

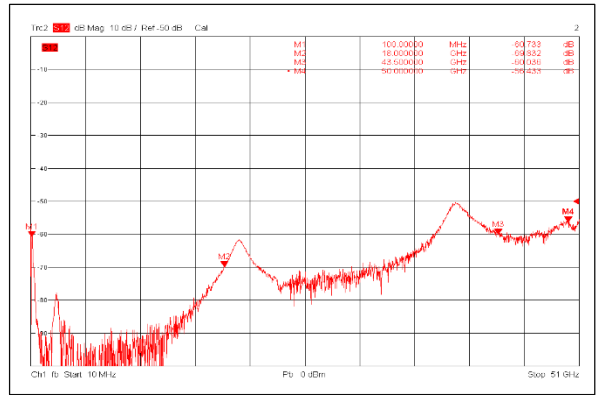


## Поглощающий коаксиальный переключатель SP2T 0,1 - 50 ГГц

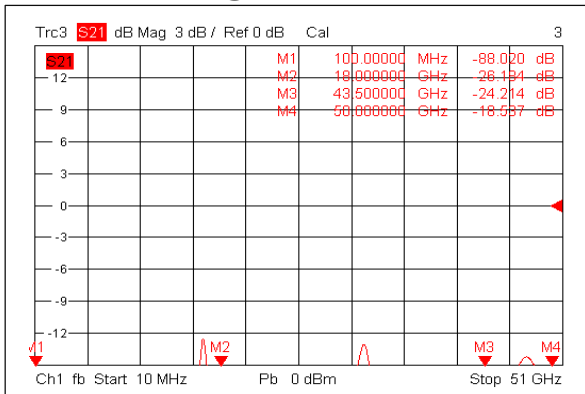
### Output VSWR @-40°C



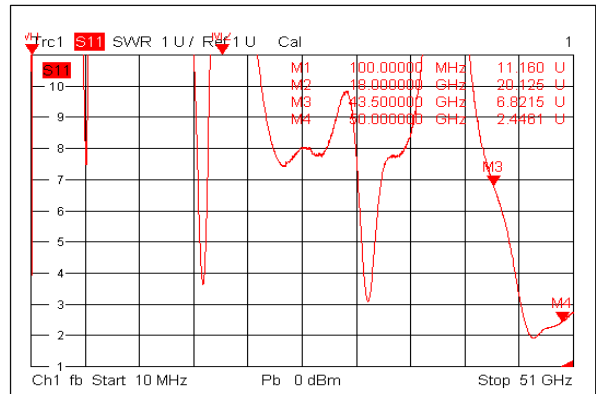
### Isolation @-40°C



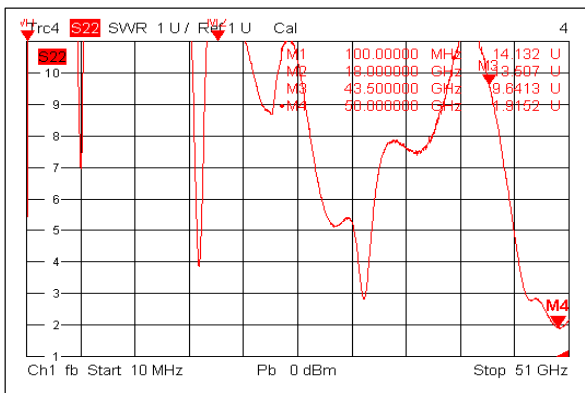
### Insertion Loss @+85°C



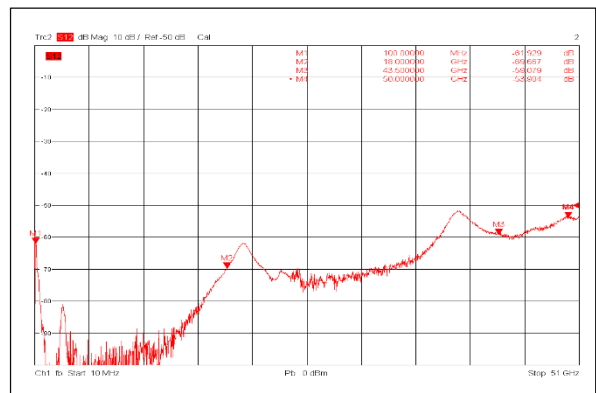
### Input VSWR @+85°C



### Output VSWR @+85°C

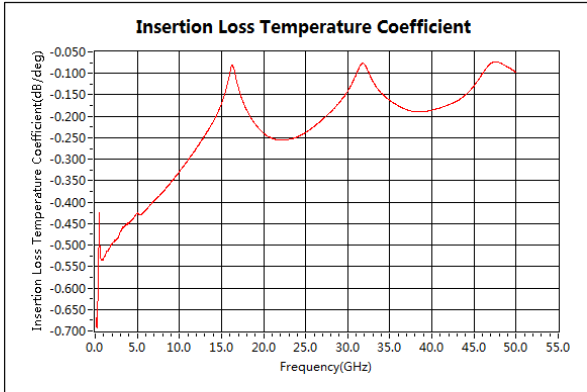


### Isolation @+85°C

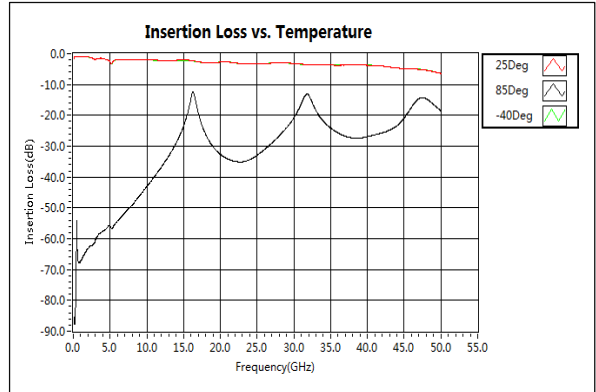


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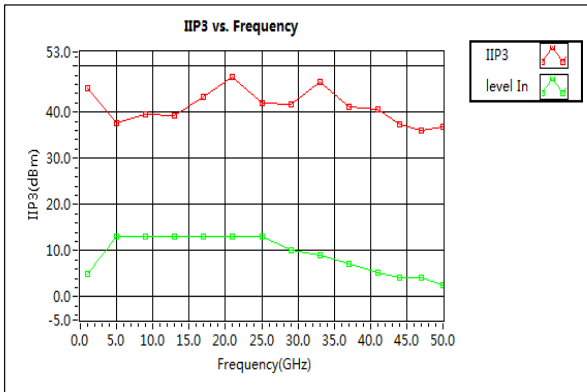
### Insertion Loss Temperature Coefficient



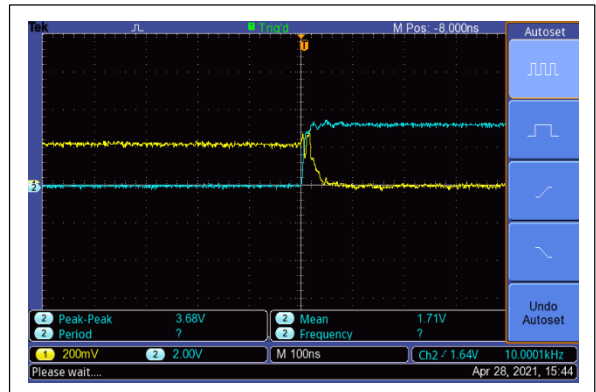
### Insertion Loss vs. Temperature



### IIP3



### Switching Speed



### Switching Speed

