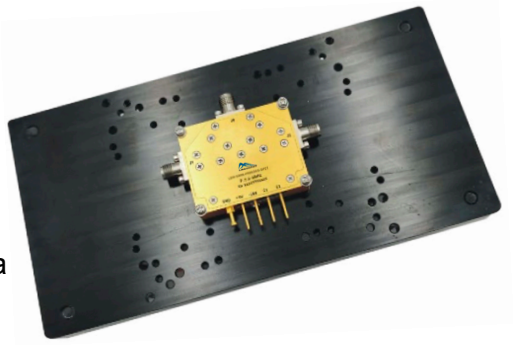
# P/N:LBW-SW06-PR06G6G-SP2T

## Отражающий коаксиальный переключатель SP2T
## 600 МГц - 6 ГГц

### Характеристики:

- Широкий диапазон частот 0,6 - 6 ГГц
- Включен TTL-драйвер
- Быстрая скорость переключения
- Низкие потери и высокая изоляция
- Холодное переключение высокой мощности
- Параметры могут быть изменены по требованию заказчика



### Области применения:

- Беспроводная инфраструктура
- 5G коммуникация
- Контрольно-измерительный приборы
- Микроэлектроника и спутниковая связь
- Оптоволоконные сети

| Parameters | | Min. | Typ. | Max. | Min. | Typ. | Max. | Units |
|---|---|---|---|---|---|---|---|---|
| Frequency Range | | | 0.6 - 3 | | | 3 - 6 | | GHz |
| Insertion Loss | | | 0.6 | 1.0 | | 1.0 | 1.2 | dB |
| Insertion Loss Temperature Coefficient | | | 0.003 | | | 0.003 | | dB/ ° C |
| Isolation | | 60 | 65 | | 60 | 65 | | dB |
| Input VSWR | | | 1.3 | 1.5 | | 1.3 | 1.5 | : 1 |
| Output VSWR | | | 1.3 | 1.5 | | 1.3 | 1.5 | : 1 |
| RF Input Power (CW) | | | | 100 | | | 100 | W |
| DC Power Dissipation | | | 1.3 | | | 1.3 | | W |
| 0.1dB Compression Point( P0.1dB ) | | | 50 | | | 50 | | dBm |
| IIP3 | | | 53 | | | 50 | | dBm |
| Switching Speed | | | 400 Typ. | | | | | ns |
| Bias Current (+5V/-28V) | | | 150/70Typ. | | | | | mA |
| Weight | Net | | 1.6 Max. | | | | | Ounces |
| | Including Heat sink | | 15.2 Max. | | | | | |
| Impedance | | | 50 | | | | | Ω |
| Input / Output Connectors | | | SMA-Female | | | | | |
| Finish | | | Gold Plated | | | | | |
| Material | | | Aluminum | | | | | |
| Package | | | Epoxy Sealed (Standard) | | | | | |
| | | | Hermetically Sealed (Optional) | | | | | |

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## Absolute Maximum Ratings

| | |
|---|---|
| Biasing | +5V±10%/-28V±10% |

Notes:
- TTL pins cannot be connected to the negative voltage otherwise the internal driver will be damaged.
- Cold Switching: Before changing any TTL signal(s), the RF input power must be blanked or the switch could be damaged

## Environmental Specifications

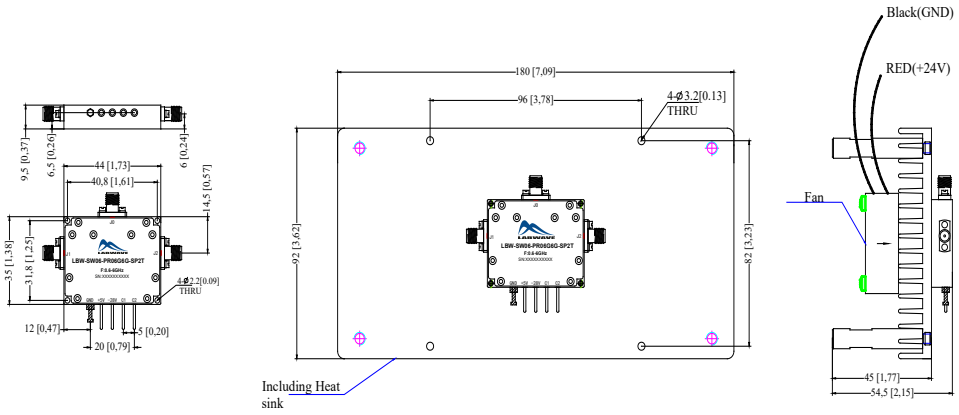
| | |
|---|---|
| Operational Temperature | -40ºC~+85ºC |
| Storage Temperature | -50ºC~+105ºC |
| Altitude | 30,000 ft. (Epoxy Sealed Controlled environment) |
| | 60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional) |
| Vibration | 25g RMS (15 degrees 2KHz) endurance, 1 hour per axis |
| Humidity | 100% RH at 35ºc, 95%RH at 40ºc |
| Shock | 20G for 11msec half sine wave,3 axis both directions |

## Ordering Information

| Part No. | Description |
|---|---|
| LBW-SW06-PR06G6G-SP2T | SP2T 0.6-6GHz GaN Switch |

## Outline Drawing:

All Dimensions in mm (inches)
Housing Tolerances ±0.1 (0.004)
(Excl Heat Sink).




### Truth Table

| TTL Control Voltage THRESHOLD | | Low(0)=0~0.8V |
|---|---|---|
| | | High(1)=2.8~5V |
| Control Input TTL | | Signal Path State |
| C2 | C1 | |
| 0 | 0 | OFF |
| 0 | 1 | J0-J1 |
| 1 | 0 | J0-J2 |
| 1 | 1 | Not Used |
| Control Pin Customization available upon request | | |

**Notes:**
Heatsink Required - Mandatory for High Power Operation.

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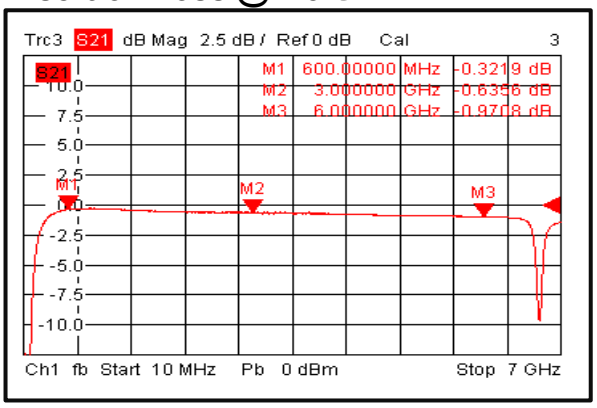
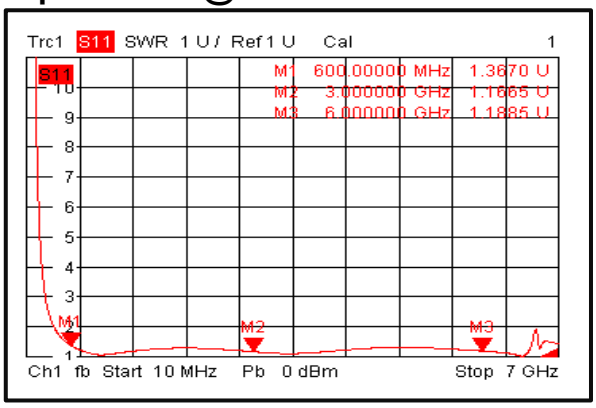
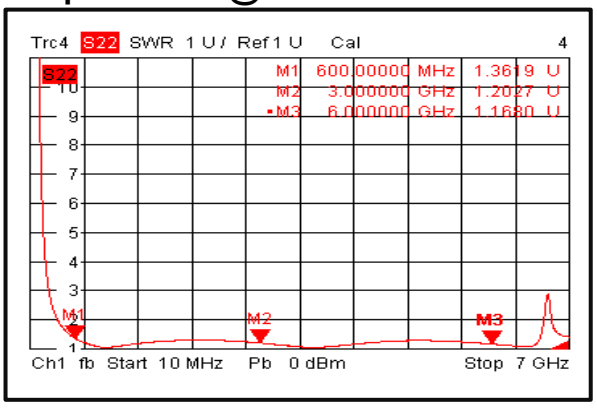
## Insertion Loss @+25℃



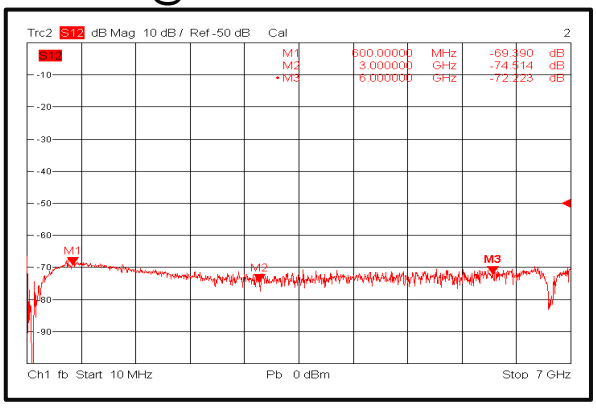

## Input VSWR @+25℃



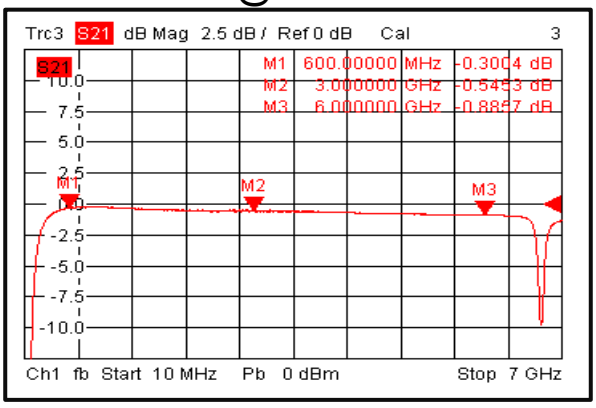

## Output VSWR @+25℃



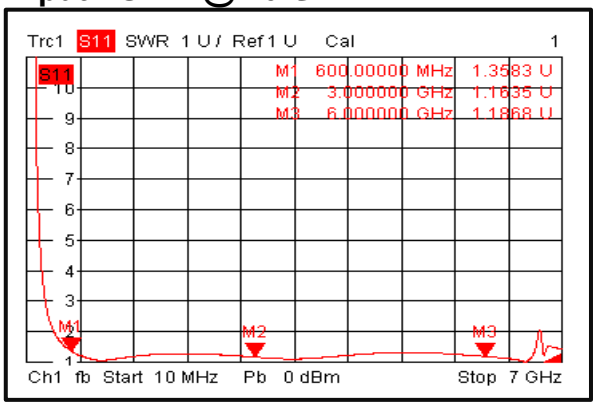

## Isolation @+25℃




## Insertion Loss @-40℃




## Input VSWR @-40℃



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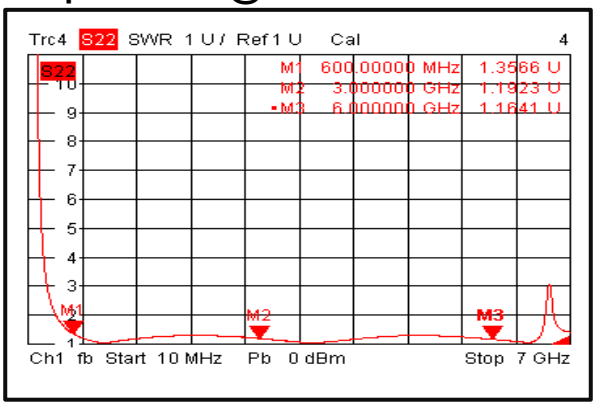
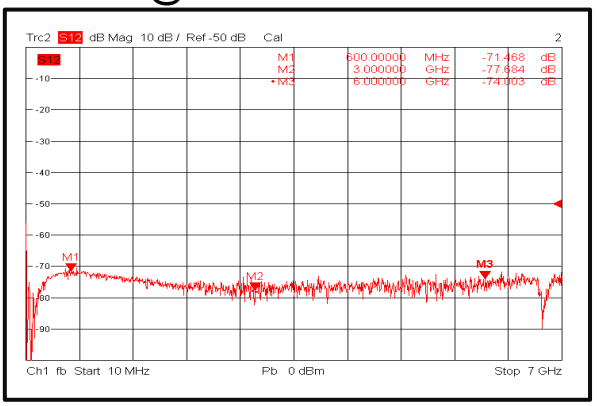
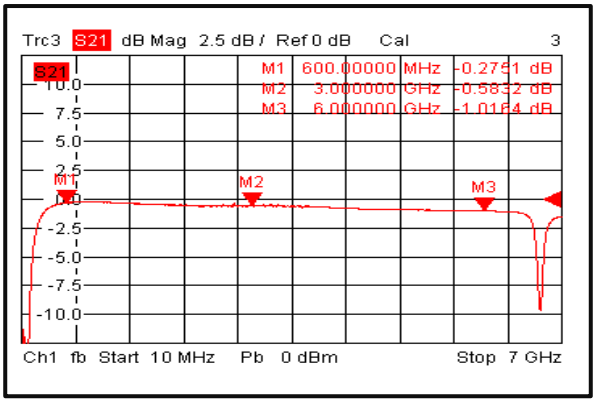
## Output VSWR @-40℃



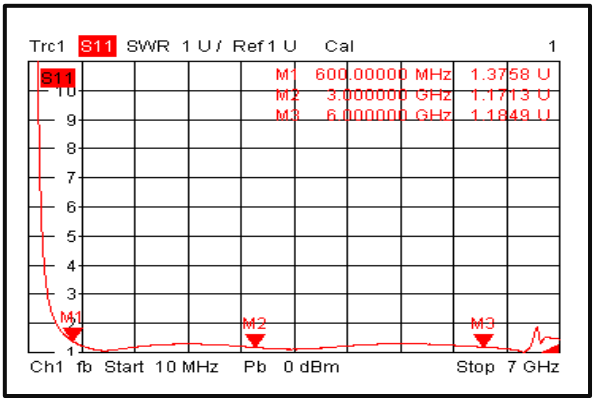

## Isolation @-40℃



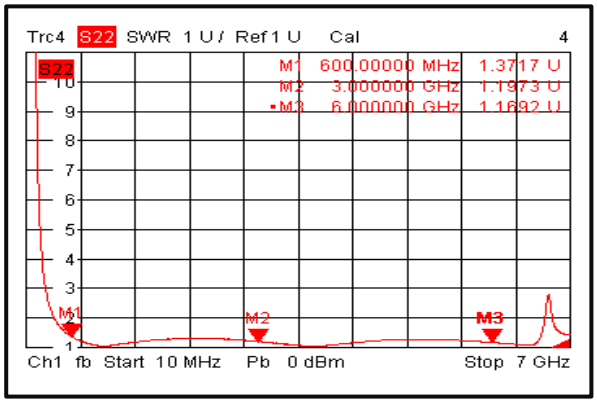

## Insertion Loss @+85℃



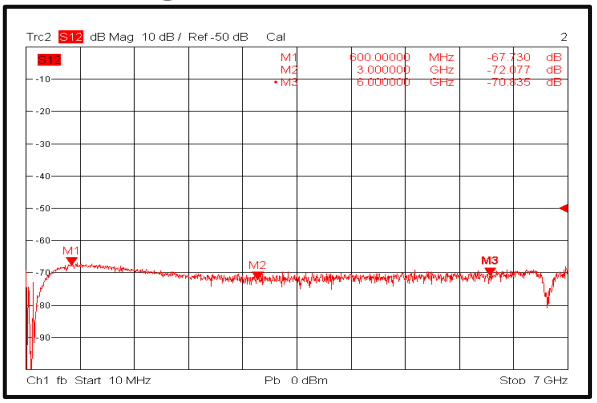

## Input VSWR @+85℃




## Output VSWR @+85℃




## Isolation @+85℃



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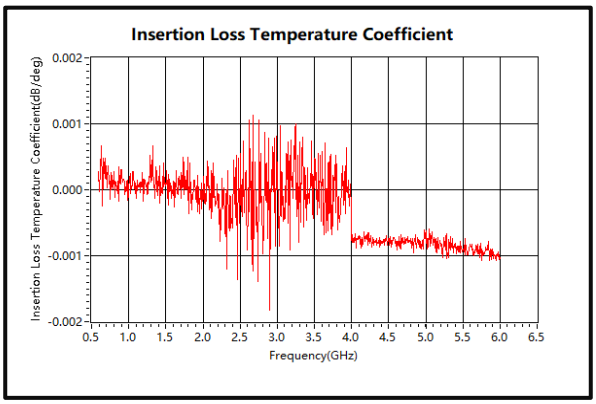
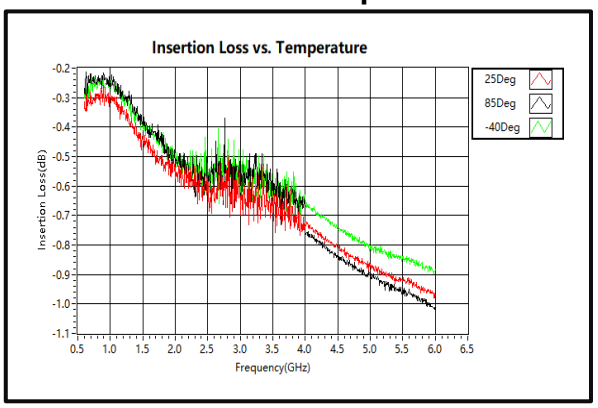
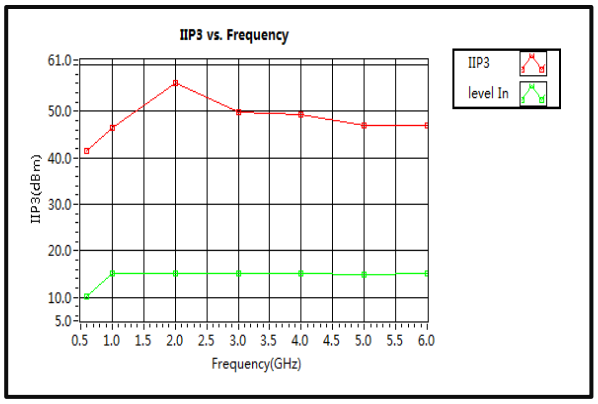
## Insertion Loss Temperature Coefficient



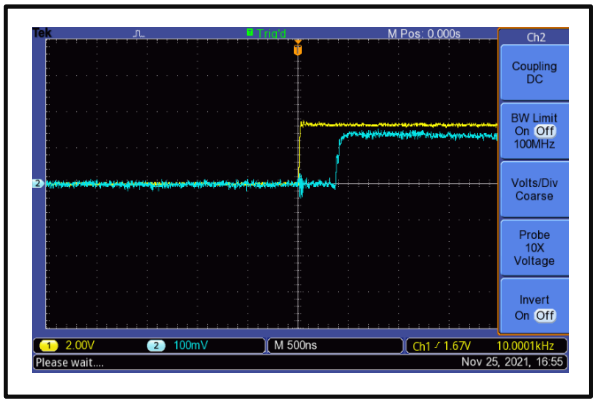

## Insertion Loss vs. Temperature



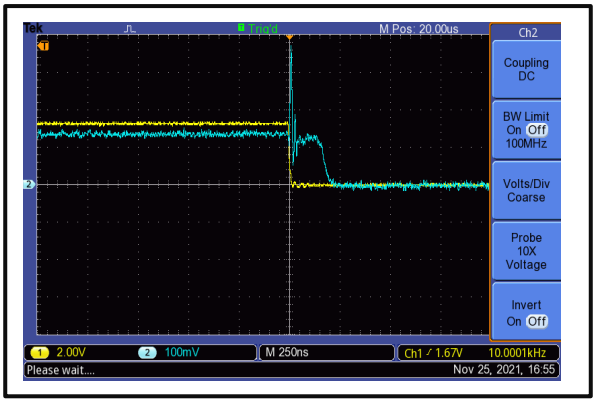

## IIP3




## Switching Speed




## Switching Speed





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