## Switch

# Model **ESP8T005060A Rev.A**

0.5-6GHz Absorptive SP8T Solid State Switch

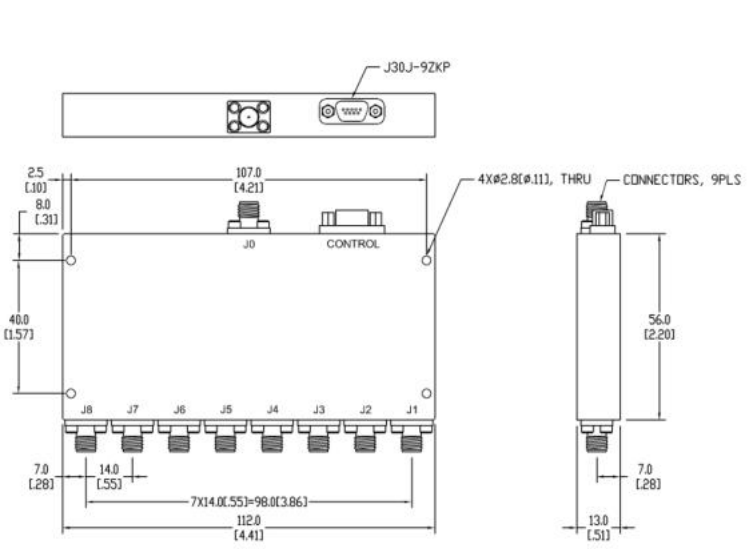
## Specifications

All specifications are subject to change without notice at any time

| | | |
|---|---|---|
| Frequency Range | GHz | 0.5-6 |
| VSWR | :1(Max.) | 1.8 |
| Insertion Loss | dB(Max.) | 1.7 |
| Amp./Pha. Consistency | (Max.) | ±0.5dB / ±5Deg. |
| Isolation | dB(Min.) | 70 |
| Switching Time | ns(Max.) | 250 |
| Power | W(Max.) | 1 |
| Dimension & Weight [1] | 56.0Lx112.0Wx13.0H (mm) / ≤200g | |
| Connector | RF: SMA[F]; Power & Control: J30J-9ZKP | |
| Power Supply | +5V±5%@ 400mA max. | |
| Control | Low level: "0" @ 0~+0.8V, High level: "1" @ +2.5~+5.0V (Internally pull up) | |
| Finishing | Alloy iridite, Per MIL-DTL-5541F | |
| Temperature | Operating: -55 ~ +85℃, Storage: -65 ~ +100℃ | |
| Environmental | Optional: Per MIL-STD-202F (contact supplier for detail info.) | |

Note: 1. Unless otherwise specified, Decimal tolerance: x.±1; .x±0.5; .xx±0.1

## Outline Drawing



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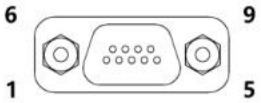
## Interface Connector Pin Out




| Pin | Definition | Pin | Definition |
|---|---|---|---|
| 1 | +5V | 6 | EN |
| 2 | N/C | 7 | N/C |
| 3 | C1 | 8 | N/C |
| 4 | C2 | 9 | GND |
| 5 | C3 | | |

## Truth table

| EN | C3 | C2 | C1 | Channel |
|---|---|---|---|---|
| 1 | 1 | 1 | 1 | J1 |
| 1 | 1 | 1 | 0 | J2 |
| 1 | 1 | 0 | 1 | J3 |
| 1 | 1 | 0 | 0 | J4 |
| 1 | 0 | 1 | 1 | J5 |
| 1 | 0 | 1 | 0 | J6 |
| 1 | 0 | 0 | 1 | J7 |
| 1 | 0 | 0 | 0 | J8 |
| 0 | / | / | / | All turn off |

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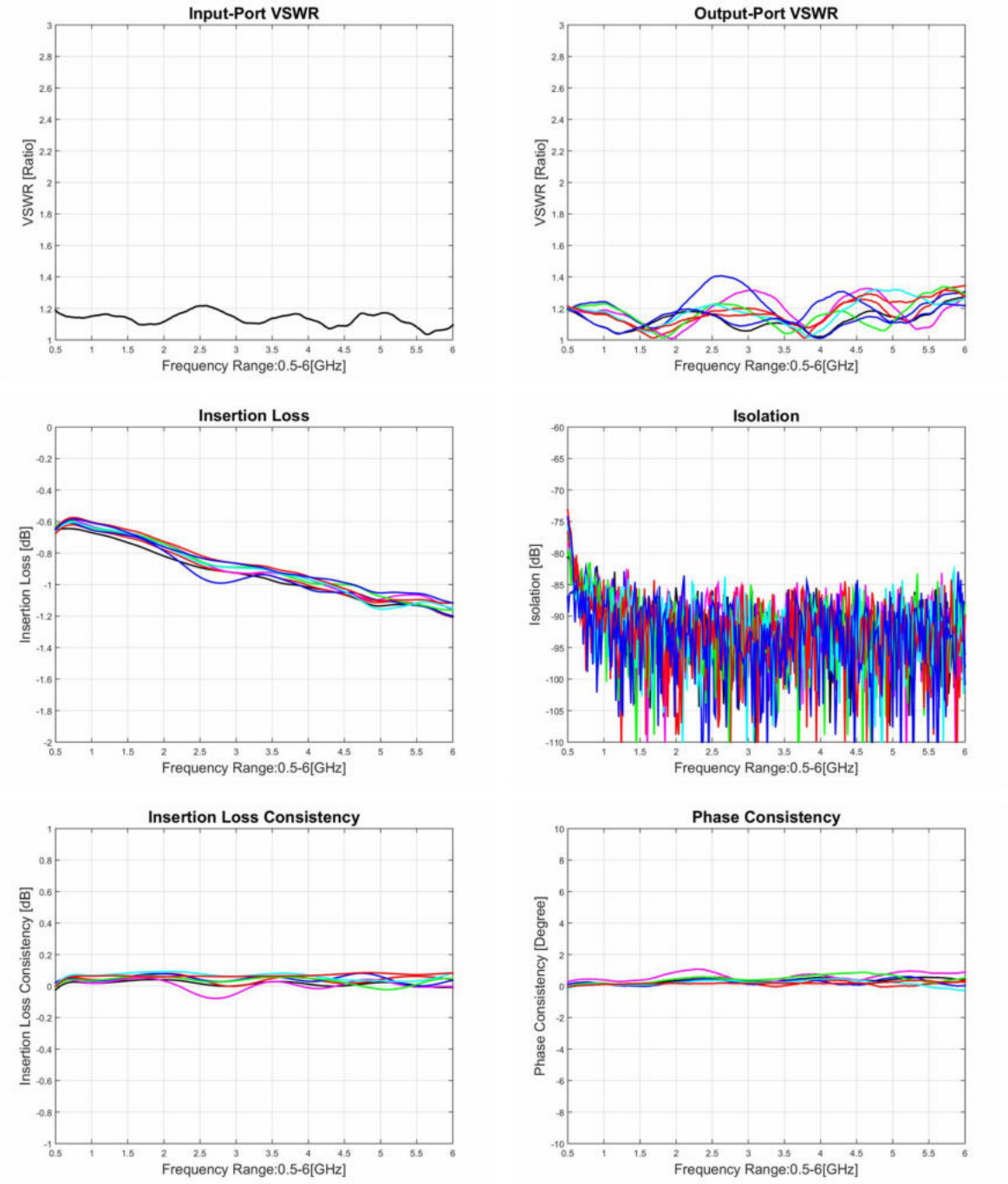
### Typical Graph

Typical test environment: 25℃ and 60%RH