

### FEATURE:

- Solid State, Mixture Integrated
- High Speed, Low Loss, High Isolation
- Field Removable SMA(F) Connector
- Integrated with Driver

### APPLICATION:

- Test equipment
- Radar & Warfare system
- Communication system



### ELECTRICAL SPECIFICATIONS@25°C:

| Parameter           | Min | Typical | Max | Units |
|---------------------|-----|---------|-----|-------|
| Frequency Range     | 2   |         | 18  | GHz   |
| Insertion Loss      |     | 4.0     |     | dB    |
| Isolation           | 80  |         |     | dB    |
| VSWR                |     |         | 2.0 | Ratio |
| Power handling      |     |         | 0.2 | watt  |
| Switching Time      |     |         | 50  | ns    |
| DC Power supply +5V |     | 150     |     | mA    |
| DC Power supply -5V |     | 100     |     | mA    |

### ENVIRONMENTAL RATINGS:

| Parameter                          | Min   | Typical | Max   | Units |
|------------------------------------|-------|---------|-------|-------|
| Operating Temperature              | -40   |         | +85   | °C    |
| Non-operating Temperature          | -55   |         | 125   | °C    |
| Relative humidity (non-condensing) |       | 95      |       | %     |
| Altitude (MIL-STD-810F)            | 10000 |         | 30000 | feet  |
| Shock / Vibration (MIL-STD-810F)   |       | Airbone |       |       |

### MECHANICAL SPECIFICATIONS:

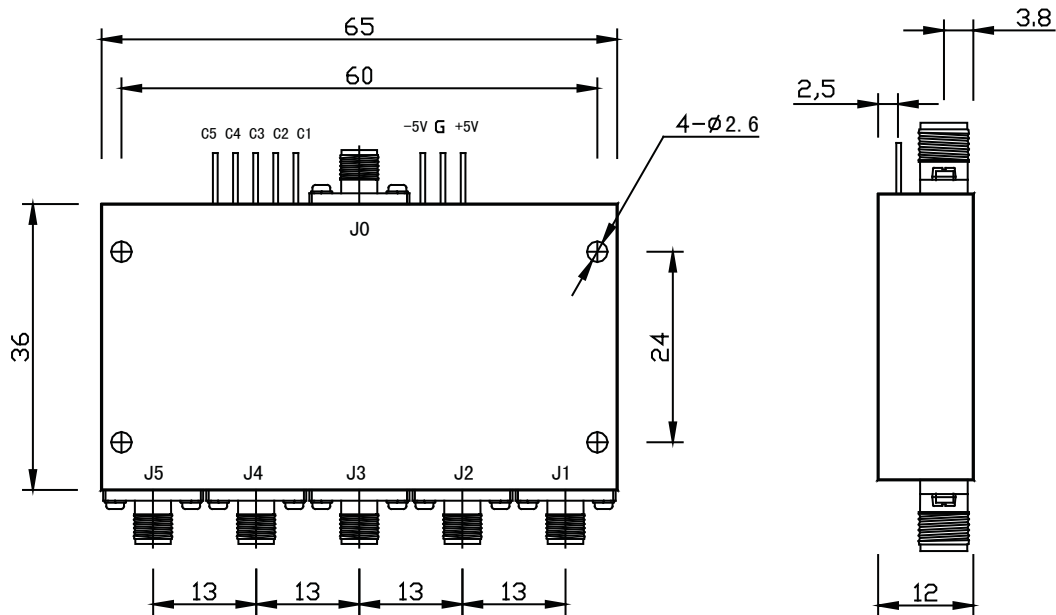
| Parameter            | Value    | Limits | Units      |
|----------------------|----------|--------|------------|
| Dimensions           | 65*36*12 | Max    | Millimeter |
| Weight               | 150      | Max    | gram       |
| RF Connectors Input  | SMA-F    |        |            |
| RF Connectors output | SMA-F    |        |            |
| Impedance            | 50       |        | ohms       |

### TTL CONTROL LOGIC

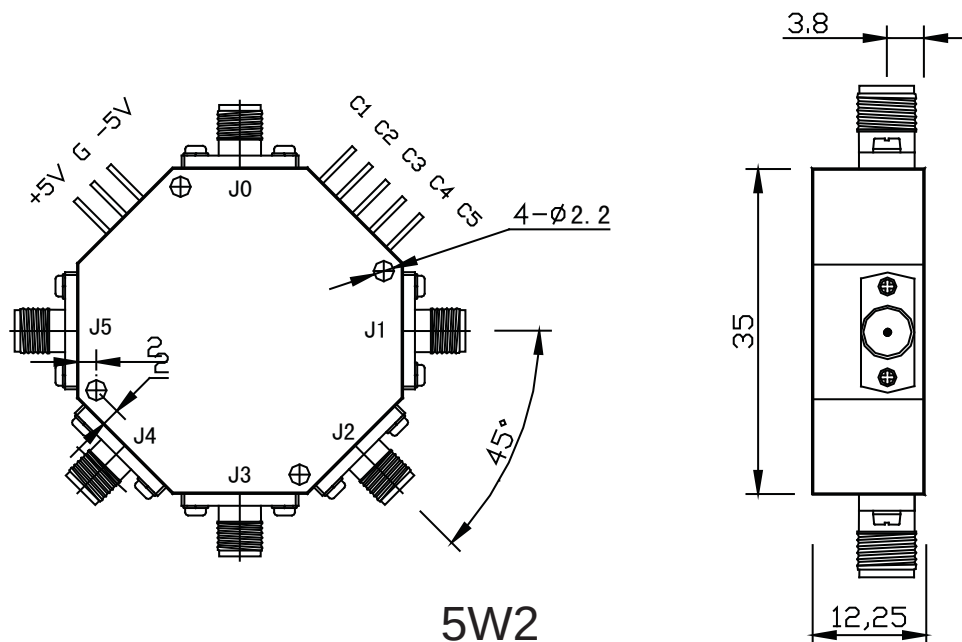
TTL 0 (low) (0 to 0.8 V) :Loss

TTL 1 (high) (2.4 to 4.7 V) :Isolation

### OUTLINE DRAWING(mm):



5W1



5W2



# SP5T ABSORPTIVE PIN SWITCH

## SP5T020180A8

### TEST DATA:

| Frequency 2-18(GHz) |        |      |            |         |
|---------------------|--------|------|------------|---------|
| Out                 | IL(dB) |      | VSWR (Max) | ISO(dB) |
|                     | Min    | Max  |            |         |
| J1                  | 0.63   | 4.42 | 2          | 81      |
| J2                  | 0.65   | 4.4  | 1.87       | 81      |
| J3                  | 0.58   | 4.47 | 1.86       | 82      |
| J4                  | 0.56   | 4.26 | 1.79       | 81      |
| J5                  | 0.72   | 4.44 | 1.98       | 81      |