

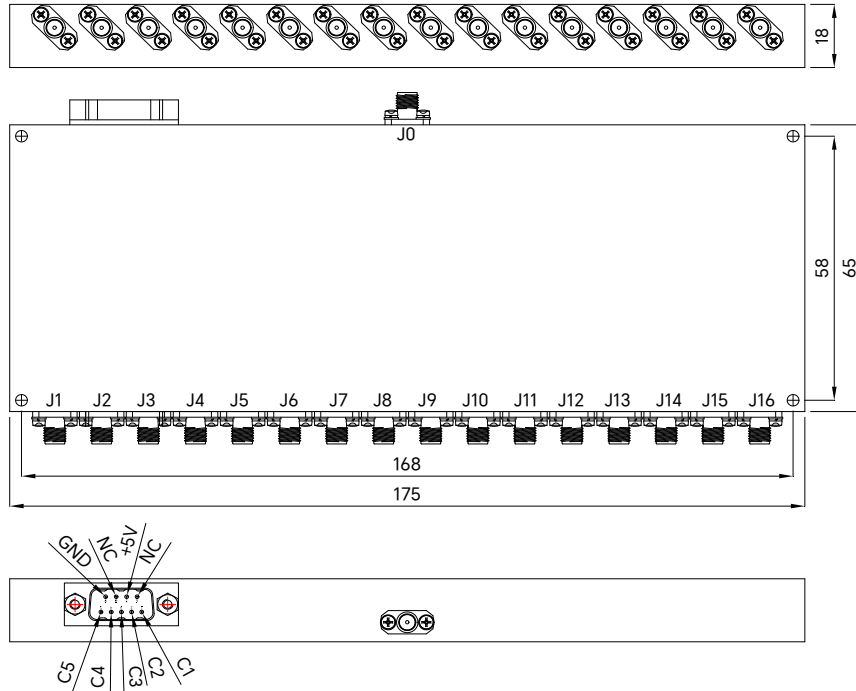
**PART NUMBER**  
**TMPS16-00400800-2S**

|      |          |                     |         |
|------|----------|---------------------|---------|
| REV. | DATE     | COMMENTS            | INITIAL |
| 1    | 2020/8/8 | ENGINEERING RELEASE |         |

**SPECIFICATIONS**

RoHS Compliant

Frequency Range ..... 0.4-8GHz  
 Insertion Loss ..... 5.0dB max  
 Isolation ..... 80dB min  
 Input&Output VSWR ..... 1.6 max  
 RF Input Power ..... 2W  
 Switching Speed ..... 200ns max  
 Voltage/Current ..... +5Vdc@800mA max  
 Connectors ..... SMA-Female  
 Control Connector ..... D-SUB9 Male  
 Operating Temperature ..... -40°C~+70°C  
 Storage Temperature ..... -55°C~+85°C  
 Dimensions ..... 175 × 65 × 18mm  
 Material ..... Aluminum 6061  
 Surface Finish ..... Nickel Plated



Drawing not to scale, units:mm

**Control Truth Table**

| TTL Control Voltage |    |    |    |    | Low(0)=0V         |
|---------------------|----|----|----|----|-------------------|
| Threshold           |    |    |    |    | High(1)=3.3V-5V   |
| C5                  | C4 | C3 | C2 | C1 | Signal Path State |
| 0                   | 0  | 0  | 0  | 0  | J0→J1             |
| 0                   | 0  | 0  | 0  | 1  | J0→J2             |
| 0                   | 0  | 0  | 1  | 0  | J0→J3             |
| 0                   | 0  | 0  | 1  | 1  | J0→J4             |
| 0                   | 0  | 1  | 0  | 0  | J0→J5             |
| 0                   | 0  | 1  | 0  | 1  | J0→J6             |
| 0                   | 0  | 1  | 1  | 0  | J0→J7             |
| 0                   | 0  | 1  | 1  | 1  | J0→J8             |
| 0                   | 1  | 0  | 0  | 0  | J0→J9             |
| 0                   | 1  | 0  | 0  | 1  | J0→J10            |
| 0                   | 1  | 0  | 1  | 0  | J0→J11            |
| 0                   | 1  | 0  | 1  | 1  | J0→J12            |
| 0                   | 1  | 1  | 0  | 0  | J0→J13            |

**PART NUMBER**  
**TMPS16-00400800-2S**

**DESCRIPTION**  
**PIN Diode Switch, SP16T, 0.4-8GHz, Absorptive, 2W, SMA-Female**

CAGE CODE

SIGNATURE



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|   |   |   |   |   |        |
|---|---|---|---|---|--------|
| 0 | 1 | 1 | 0 | 1 | J0→J14 |
| 0 | 1 | 1 | 1 | 0 | J0→J15 |
| 0 | 1 | 1 | 1 | 1 | J0→J16 |
| 1 | X | X | X | X | OFF    |