

REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2023/8/11	C. Chen

TECHNICAL DATA

Electrical Data

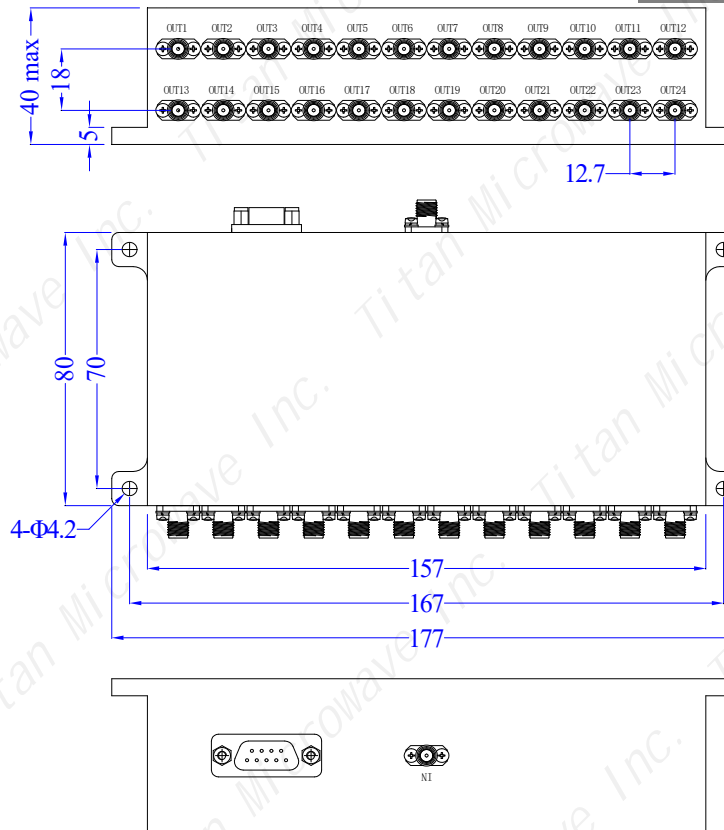
Type	Absorptive SP24T Switch
Frequency Range	0.4~18GHz
Isolation	≥80dB
Insertion Loss	≤8.0dB
VSWR	≤2.0:1
Impedance	50 Ohms
RF Input Power	+30dBm(1W)
Switching Sped	≤200ns
Control	TTL=0~0.8V/3.3~5V
DC Power Supply	+5V/≤1A

Mechanical Data

Dimensions	177×80×40mm
Input Connector	SMA-Female
Output Connector	SMA-Female
Control Connector	9-Pin D-Sub Male
Material	Aluminum
Surface Treatment	Natural Color

Environmental Data

Operating Temperature	-40℃~+70℃
Storage Temperature	-55℃~+85℃



9-Pin D-Sub Male

1	2	3	4	5	6	7	8	9
C1	C2	C3	C4	C5	NC	+5V	NC	GND

Truth Table

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
0	1	1	0	1	J0→J14
0	1	1	1	0	J0→J15
0	1	1	1	1	J0→J16
1	0	0	0	0	J0→J17
1	0	0	0	1	J0→J18
1	0	0	1	0	J0→J19
1	0	0	1	1	J0→J20
1	0	1	0	0	J0→J21
1	0	1	0	1	J0→J22
1	0	1	1	0	J0→J23
1	0	1	1	1	J0→J24
1	1	0	0	0	Shut Down All

Notes:

- ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
- CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY

DRAWN: L. Ma 11/08/23		
ENGINEER: J. Zhu 11/08/23		
APPROVED: C. Chen 11/08/23		
TOLERANCE UNLESS OTHERWISE SPECIFIED		
x	±0.50	[0.019"]
.x	±0.20	[0.008"]
.xx	±0.10	[0.004"]
ANGLES	±1°	

TITLE:	Pin Diode Switch, 0.4-18GHz, SP24T, Absorptive, 1W, SMA-Female
PART No.:	TMPS24-00401800-1S

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⊕ ⊖ DIMENSIONS IN MILLIMETERS(mm)

SIZE:	SCALE:	SHEET:	REV:
A4		1/1	A