

SWITCH BOX

CONFIGURATION:

12 input -24output blocking matrix & input ports not available to multiple output ports at the same time

Specifications

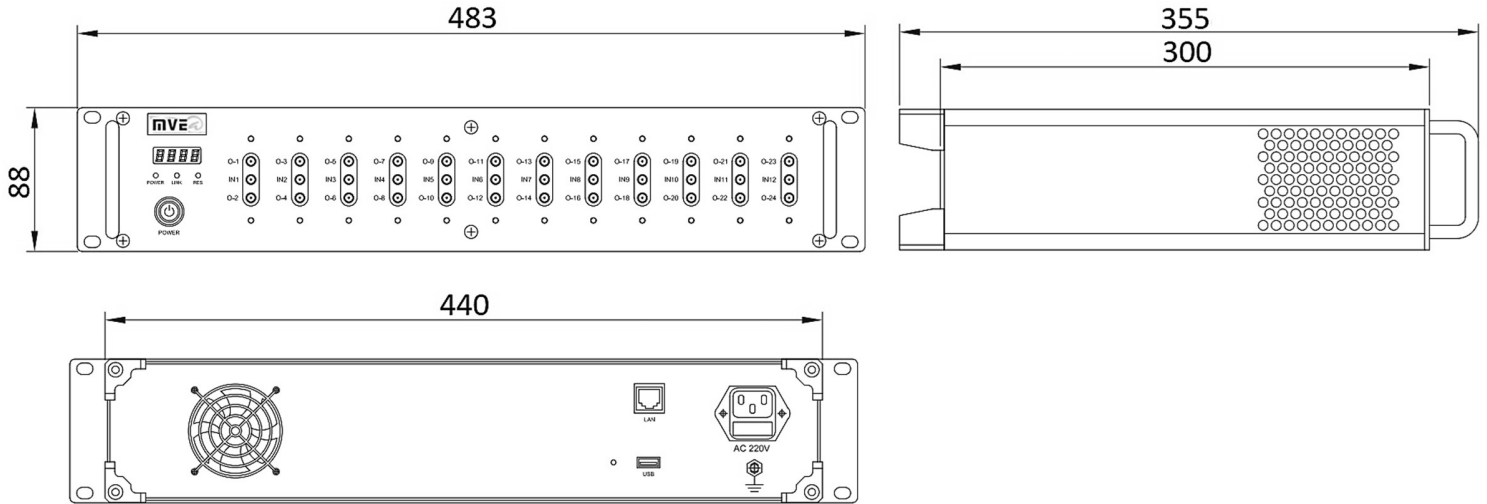
SMA 12P-24T Programmable



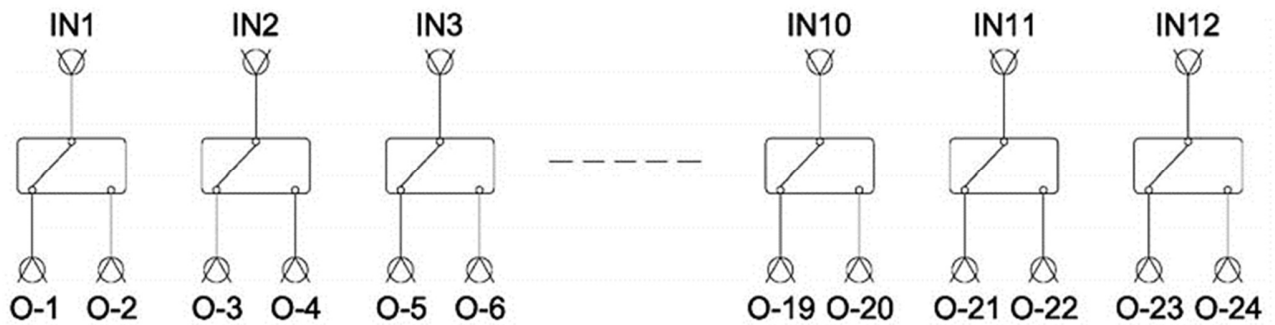
| MSW-F202 | | | | |
|-------------------------------|---|--------|-----------|------------|
| FREQUENCY RANGE | DC-3GHz | 3-8GHz | 8-12.4GHz | 12.4-18GHz |
| INPUT POWER | 240W | 150W | 120W | 100W |
| VSWR(MAX.) | 1.1:1 | 1.2:1 | 1.2:1 | 1.4:1 |
| INSERTION LOSS(MAX.) | 0.15dB | 0.20dB | 0.25dB | 0.35dB |
| ISOLATION(MIN.) | 80dB | 75dB | 65dB | 60dB |
| IMPEDANCE | 50 Ohms | | | |
| SWITCHING TIMES | 10 ms TYP. | | | |
| AC SUPPLY | AC 100-240V | | | |
| CONTROL TYPE | LAN(SCPI) | | | |
| SOFTWARE UPDATE | USB2.0 | | | |
| LIFE CYCLES | 10,000,000 MIN. (Standard warranty: 1 year) | | | |
| CONNECTOR TYPE | SMA Female | | | |
| WEIGHT | About 5kg | | | |
| ENVIRONMENTAL CHARACTERISTICS | | | | |
| TEMPERATURE RANGE | 0°C+60°C | | | |

Tolerance: X= ±0.5

Outline Drawing: (mm)



Electrical Schematic:



NOTES:
1. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
2. CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY





SWITCH BOX Format

| Port | 指令 | CONNECT | FORMAT | ANSWER |
|-----------|----|--------------------|---------------------|----------|
| IN1→O-1 | | EXTEND SWITCH PORT | SS<space>1<space>1 | >>S1:1; |
| IN1→O-2 | | EXTEND SWITCH PORT | SS<space>1<space>2 | >>S1:2; |
| IN2→O-3 | | EXTEND SWITCH PORT | SS<space>2<space>1 | >>S2:1; |
| IN2→O-4 | | EXTEND SWITCH PORT | SS<space>2<space>2 | >>S2:2; |
| IN3→O-5 | | EXTEND SWITCH PORT | SS<space>3<space>1 | >>S3:1; |
| IN3→O-6 | | EXTEND SWITCH PORT | SS<space>3<space>2 | >>S3:2; |
| IN4→O-7 | | EXTEND SWITCH PORT | SS<space>4<space>1 | >>S4:1; |
| IN4→O-8 | | EXTEND SWITCH PORT | SS<space>4<space>2 | >>S4:2; |
| IN5→O-9 | | EXTEND SWITCH PORT | SS<space>5<space>1 | >>S5:1; |
| IN5→O-10 | | EXTEND SWITCH PORT | SS<space>5<space>2 | >>S5:2; |
| IN6→O-11 | | EXTEND SWITCH PORT | SS<space>6<space>1 | >>S6:1; |
| IN6→O-12 | | EXTEND SWITCH PORT | SS<space>6<space>2 | >>S6:2; |
| IN7→O-13 | | EXTEND SWITCH PORT | SS<space>7<space>1 | >>S7:1; |
| IN7→O-14 | | EXTEND SWITCH PORT | SS<space>7<space>2 | >>S7:2; |
| IN8→O-15 | | EXTEND SWITCH PORT | SS<space>8<space>1 | >>S8:1; |
| IN8→O-16 | | EXTEND SWITCH PORT | SS<space>8<space>2 | >>S8:2; |
| IN9→O-17 | | EXTEND SWITCH PORT | SS<space>9<space>1 | >>S9:1; |
| IN9→O-18 | | EXTEND SWITCH PORT | SS<space>9<space>2 | >>S9:2; |
| IN10→O-19 | | EXTEND SWITCH PORT | SS<space>10<space>1 | >>S10:1; |
| IN10→O-20 | | EXTEND SWITCH PORT | SS<space>10<space>2 | >>S10:2; |
| IN11→O-21 | | EXTEND SWITCH PORT | SS<space>11<space>1 | >>S11:1; |
| IN11→O-22 | | EXTEND SWITCH PORT | SS<space>11<space>2 | >>S11:2; |
| IN12→O-23 | | EXTEND SWITCH PORT | SS<space>12<space>1 | >>S12:1; |
| IN12→O-24 | | EXTEND SWITCH PORT | SS<space>12<space>2 | >>S12:2; |

| IP SETTING | |
|---|---|
| Format | SetNETWORK <1>-<2>-<3>-<4> |
| Description | <1>: IP address <2>: broadcast <3>: netmask <4>: port |
| Response | SetNETWORK Success |
| Fail Response | SetNETWORK Fail |
| Example | SetNETWORK 192.168.1.200-192.168.1.1- 255.255.0.0-4001 >>>SetNETWORK Success |
| IP SEARCHING | |
| Format | LstNETWORK |
| Response | IP, NETGATE and NETMASK |
| Fail Response | None |
| Example | LstNETWORK >>> IP:192.168.1.200-NETGATE:192.168.1.1- NETMASK:255.255.0.0-PORT:4001 |
| SWITCH SETTING | |
| Format | SS x y<CR><LF> |
| Description | Setting the switch to the specific port x = switch number y = port number |
| Example | SS 1 8<CR><LF> System will return:>>>>S1:8;<CR><LF> |
| SITUATION OF CURRENT SWITCH | |
| Format | RS x<CR><LF> |
| Description | x = switch number |
| Example | RS 1<CR> <LF> System will return>>>>S1:8;<CR><LF> |
| TOTAL SWITCHING TIME OF NO. SWITCH | |
| Format | SW x<CR><LF> |
| Description | x = switch number |
| Example | SW 1<CR> <LF> System will return>>S1:28,20,15,13,17,16,11,10,23*;<CR><LF> *the last number means total resetting times |



| SN SEARCHING | |
|--------------|--|
| Format | SN?<CR><LF> |
| Description | - |
| Example | SN?<CR><LF> System will return:>>(THE SN)<CR><LF> |

*The format is for reference only

COAXIAL SWITCH

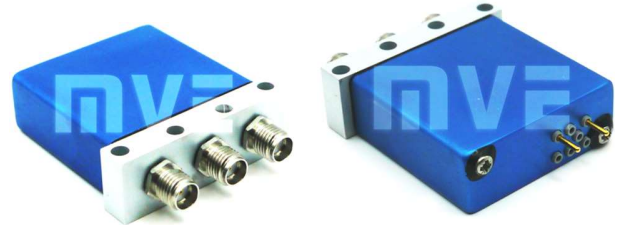
MVE9228

SPDT SMA

FAILSAFE

Features

- ✓ Frequency up to 18 GHz
- ✓ High Power
- ✓ Low Insertion Loss / High Isolation



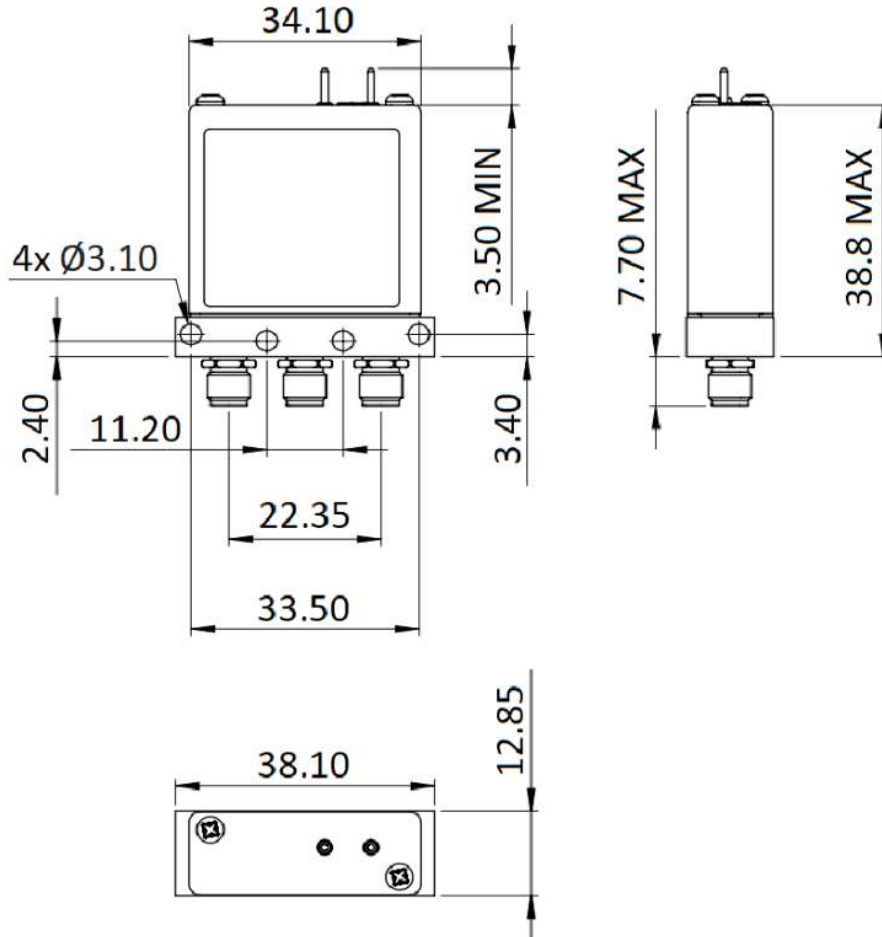
SPECIFICATIONS

| RF CHARACTERISTICS | | | | |
|-------------------------------|---------------------------------|--------|-----------|------------|
| FREQUENCY RANGE | 0-3GHz | 3-8GHz | 8-12.4GHz | 12.4-18GHz |
| VSWR MAX. | 1.1:1 | 1.2:1 | 1.2:1 | 1.4:1 |
| INSERTION LOSS MAX. | 0.15dB | 0.20dB | 0.25dB | 0.35dB |
| ISOLATION MIN. | 80dB | 75dB | 65dB | 60dB |
| AVER. POWER* | 240W | 150W | 120W | 100W |
| ACTUATOR | FAILSAFE | | | |
| NOMINAL CURRENT AT 25°C(±10%) | 250 mA | | | |
| ACTUATOR VOLTAGE(Vcc) | 12V(10.2-13V) | | | |
| TERMINALS | Solder pins (250°C MAX./30sec.) | | | |
| LIFE | 10,000,000 cycles | | | |
| SWITCHING TIME | <10ms | | | |
| CONSTRUCTION | Splashproof | | | |
| OPERATING TEMPERATURE | -40°C~+85°C | | | |
| STORAGE TEMPERATURE | -55°C~+85°C | | | |

* AVERAGE POWER @ 25°C

Tolerance: X= ±0.5

Outline Drawing (Unit: mm)



Electrical Schematic:

Position Energized :

