

NWSD-10

DPDT, 75~110GHz, WR-10

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	75~110GHz
Insertion Loss:	0.4dB max.
VSWR:	1.2 max.
Isolation:	50dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-10
Operation Life:	0.1M Cycles
Switching Time:	50mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

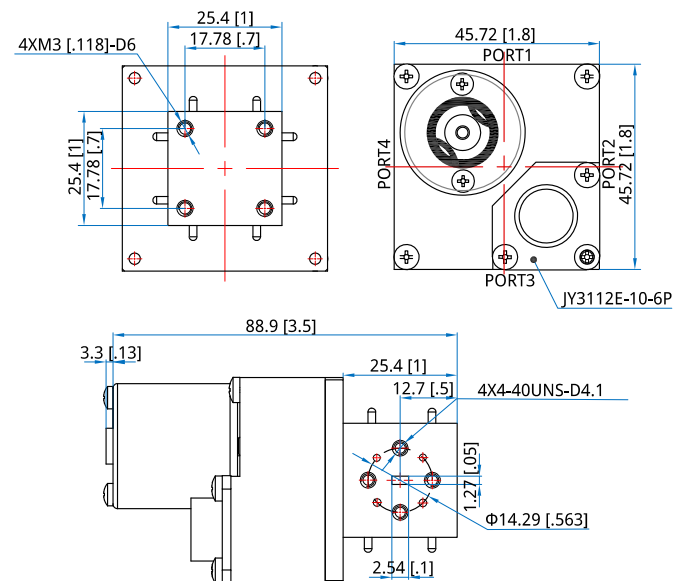
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-10-XYZ

X: Voltage. +15V: F, +24V: K.

Y: Interface Circular connector: 2.

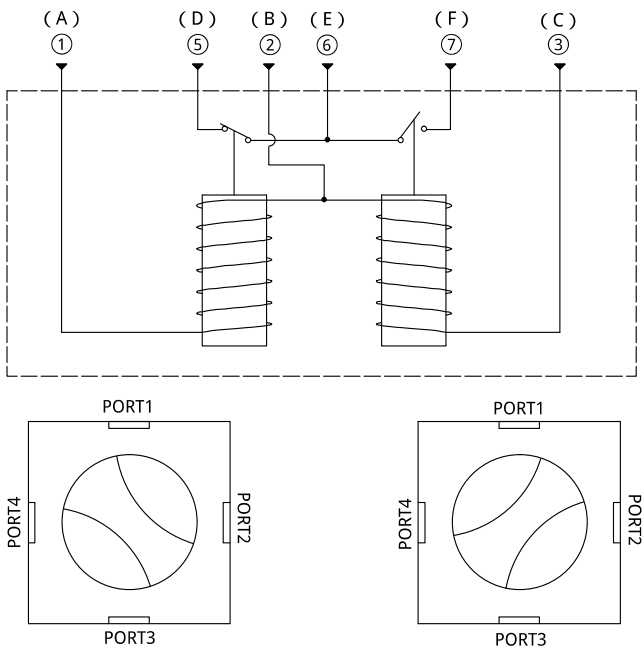
Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-10, +24V, TTL, Indicators, specify NWSD-10-K2TI.

Customization is available upon request.

Driving Schematic Diagram



NWSD-12

DPDT, 60~90GHz, WR-12

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	60~90GHz
Insertion Loss:	0.4dB max.
VSWR:	1.2 max.
Isolation:	50dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-12
Operation Life:	0.1M Cycles
Switching Time:	50mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

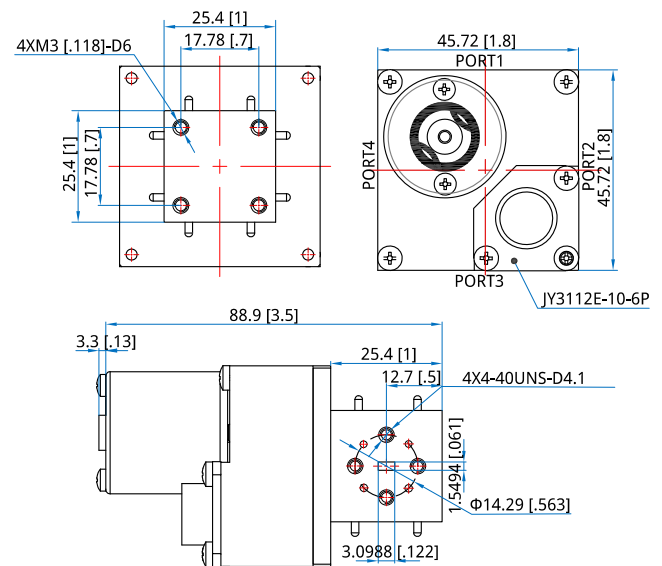
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-12-XYZ

X: Voltage. +15V: F, +24V: K.

Y: Interface Circular connector: 2.

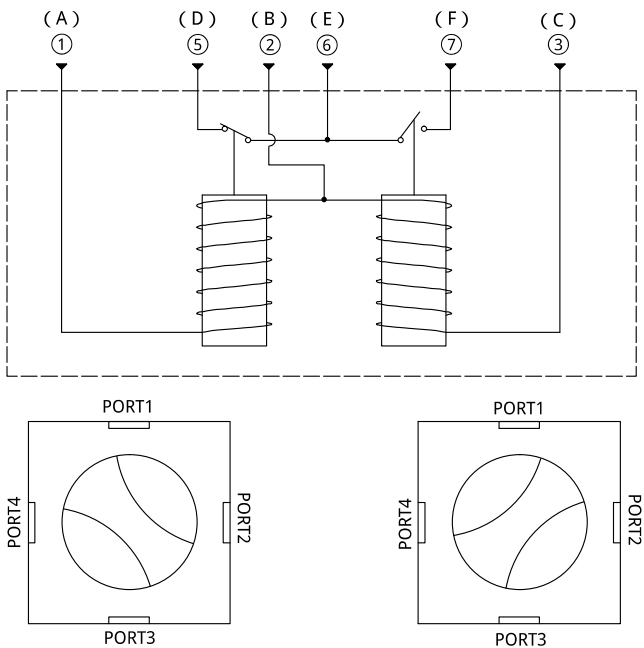
Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-12, +24V, TTL, Indicators, specify NWSD-12-K2TI.

Customization is available upon request.

Driving Schematic Diagram



NWSD-15

DPDT, 50~75GHz, WR-15

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	50~75GHz
Insertion Loss:	0.4dB max.
VSWR:	1.2 max.
Isolation:	50dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-15
Operation Life:	0.1M Cycles
Switching Time:	50mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

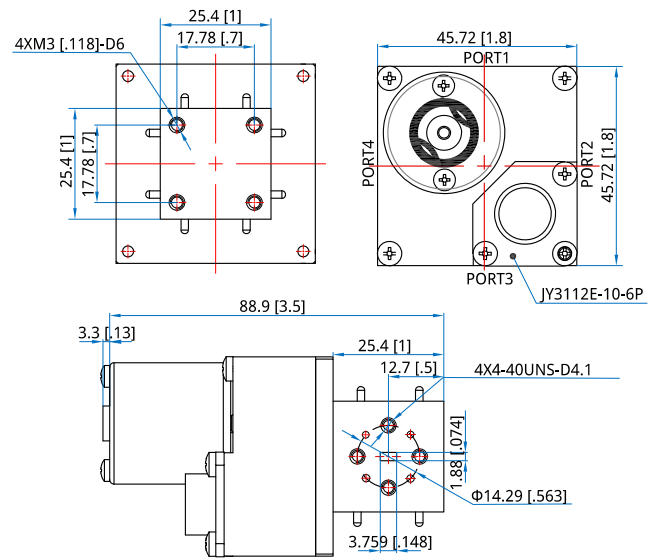
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-15-XYZ

X: Voltage. +15V: F , +24V: K.

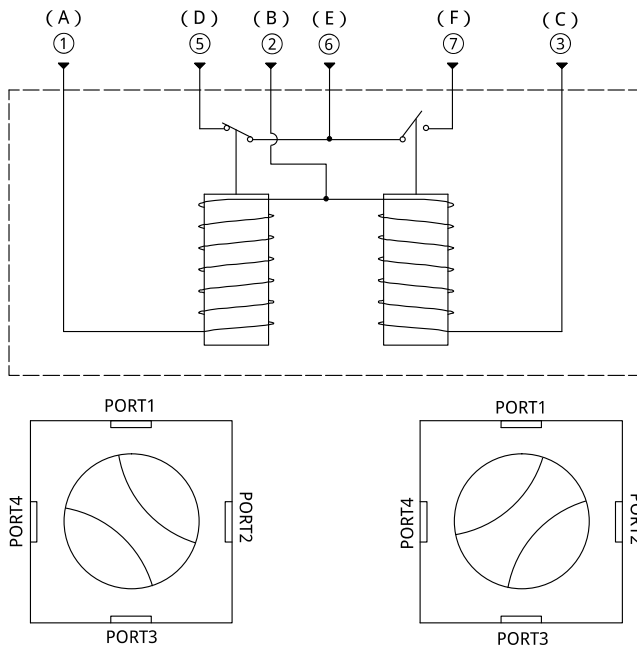
Y: Interface Circular connector: 2.

Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-15, +24V, TTL, Indicators, specify NWSD-15-K2TI.

Customization is available upon request.



NWSD-18

DPDT, 40~60GHz, WR-18

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	40~60GHz
Insertion Loss:	0.2dB max.
VSWR:	1.15 max.
Isolation:	50dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-18
Operation Life:	0.1M Cycles
Switching Time:	50mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

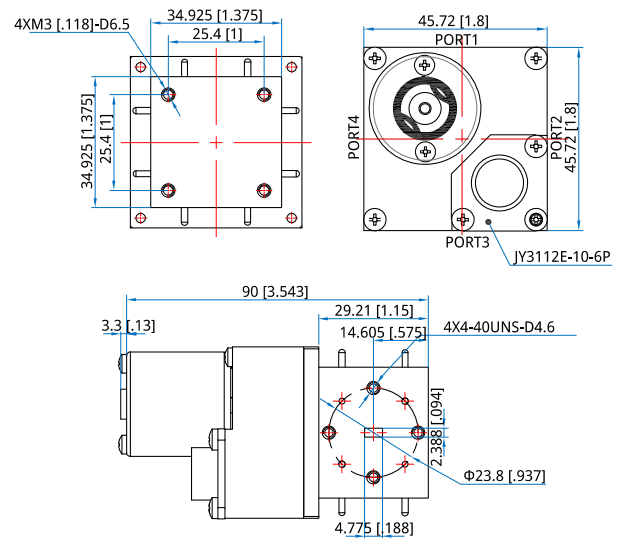
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-18-XYZ

X: Voltage. +15V: F, +24V: K.

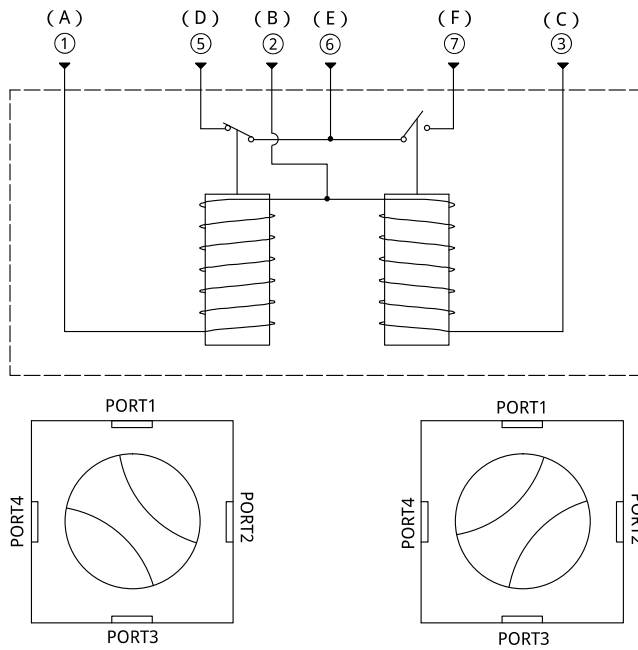
Y: Interface Circular connector: 2.

Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-18, +24V, TTL, Indicators, specify NWSD-18-K2TI.

Customization is available upon request.



NWSD-22

DPDT, 33~50GHz, WR-22

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	33~50GHz
Insertion Loss:	0.2dB max.
VSWR:	1.15 max.
Isolation:	50dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-22
Operation Life:	0.1M Cycles
Switching Time:	50mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

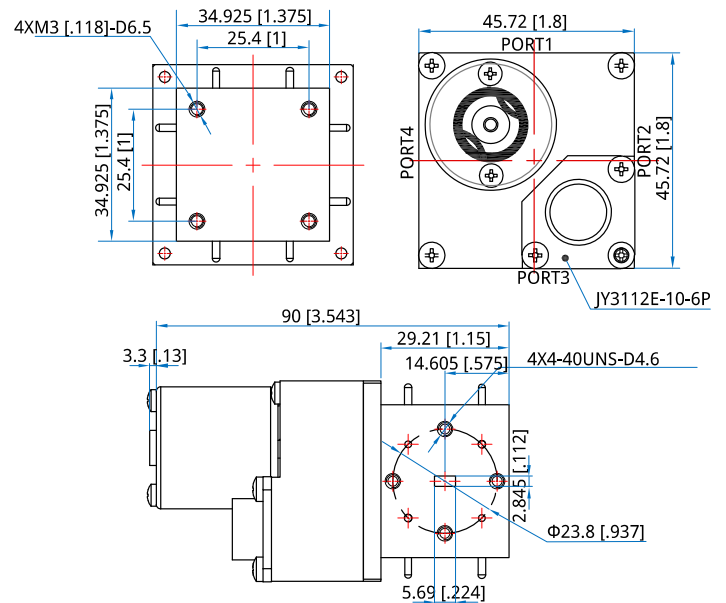
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-22-XYZ

X: Voltage. +15V: F, +24V: K.

Y: Interface Circular connector: 2.

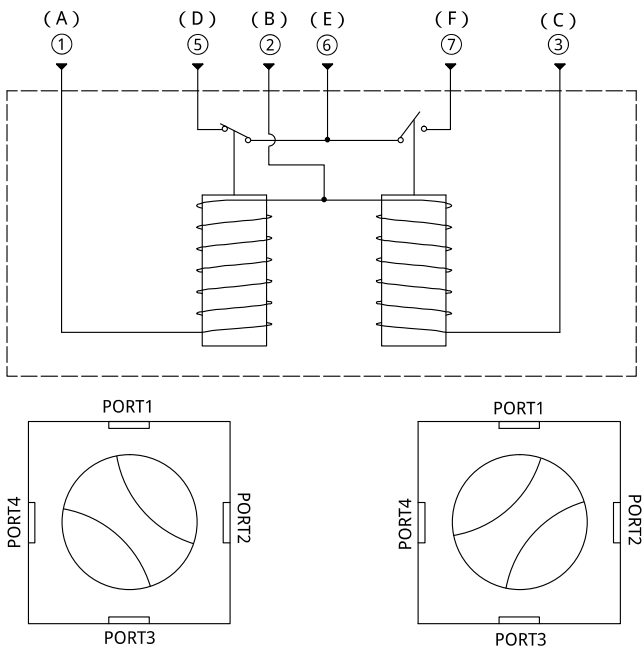
Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-22, +24V, TTL, Indicators, specify NWSD-22-K2TI.

Customization is available upon request.

Driving Schematic Diagram



NWSD-28

DPDT, 26.3~40GHz, WR-28

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	26.3~40GHz
Insertion Loss:	0.15dB max.
VSWR:	1.1 max.
Isolation:	55dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-28
Operation Life:	0.1M Cycles
Switching Time:	50mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

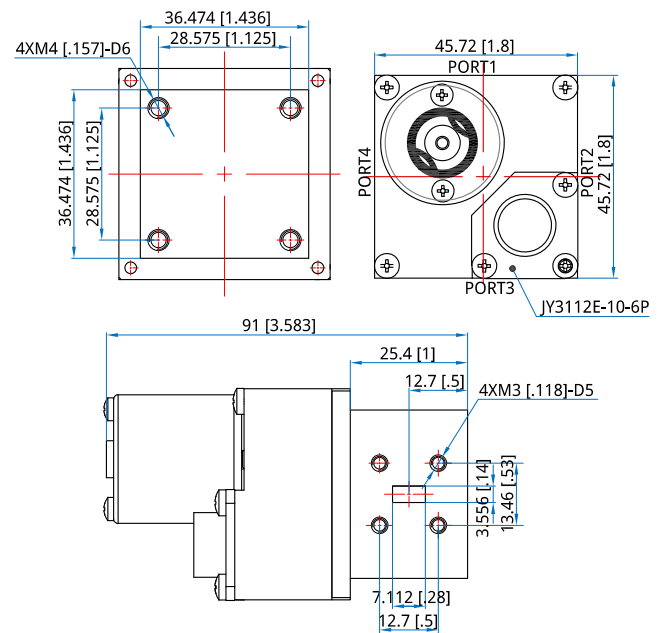
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-28-XYZ

X: Voltage. +15V: F, +24V: K.

Y: Interface Circular connector: 2.

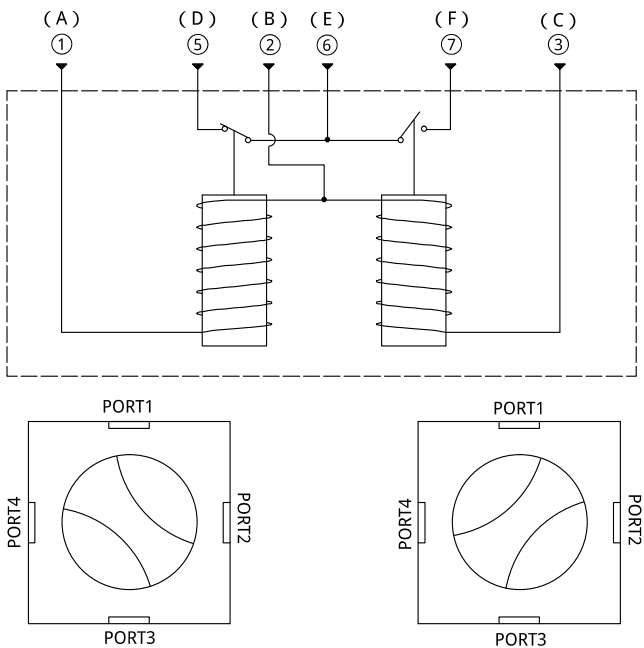
Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-28, +24V, TTL, Indicators, specify NWSD-28-K2TI.

Customization is available upon request.

Driving Schematic Diagram



NWSD-34

DPDT, 22~33GHz, WR-34

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	22~33GHz
Insertion Loss:	0.15dB max.
VSWR:	1.1 max.
Isolation:	55dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-34
Operation Life:	0.1M Cycles
Switching Time:	50mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

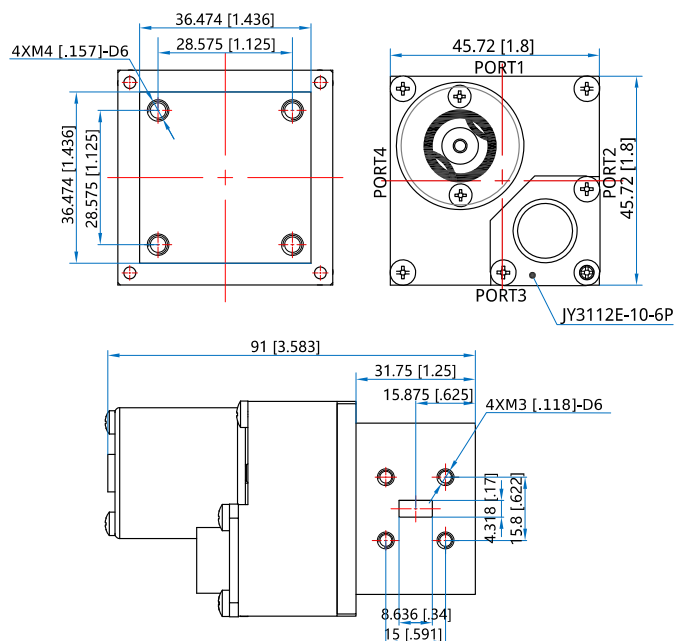
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-34-XYZ

X: Voltage. +15V: F, +24V: K.

Y: Interface Circular connector: 2.

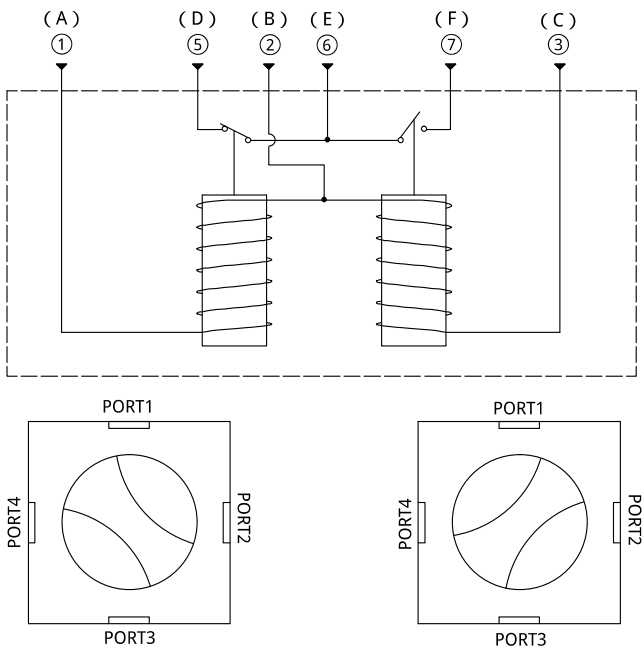
Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-34, +24V, TTL, Indicators, specify NWSD-34-K2TI.

Customization is available upon request.

Driving Schematic Diagram



NWSD-42

DPDT, 18~26.5GHz, WR-42

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	18~26.5GHz
Insertion Loss:	0.1dB max.
VSWR:	1.1 max.
Isolation:	60dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-42
Operation Life:	0.1M Cycles
Switching Time:	50mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

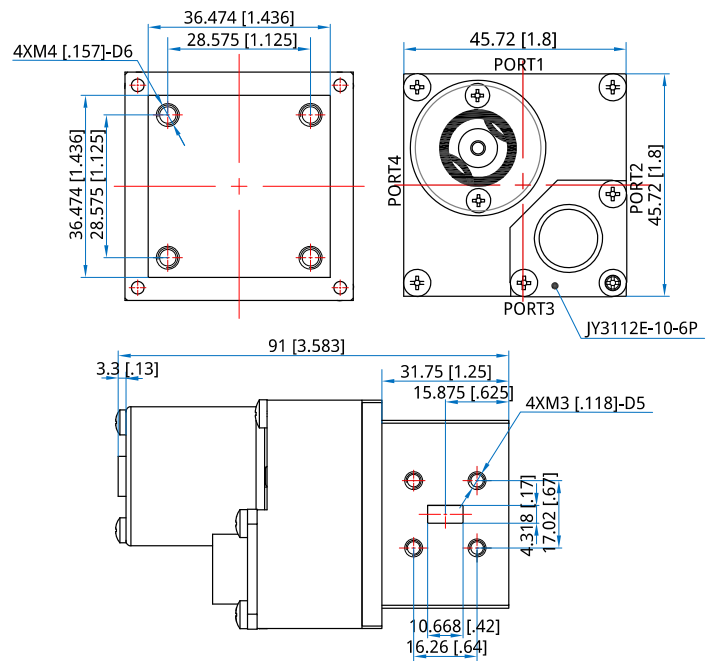
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-42-XYZ

X: Voltage. +15V: F, +24V: K.

Y: Interface Circular connector: 2.

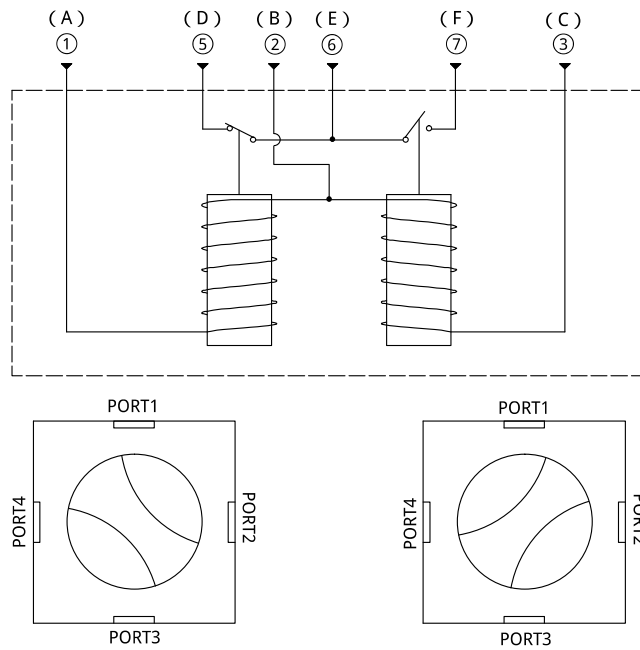
Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-42, +24V, TTL, Indicators, specify NWSD-42-K2TI.

Customization is available upon request.

Driving Schematic Diagram



NWSD-51

DPDT, 15~22GHz, WR-51

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	15~22GHz
Insertion Loss:	0.1dB max.
VSWR:	1.1 max.
Isolation:	60dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-51
Operation Life:	0.1M Cycles
Switching Time:	50mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

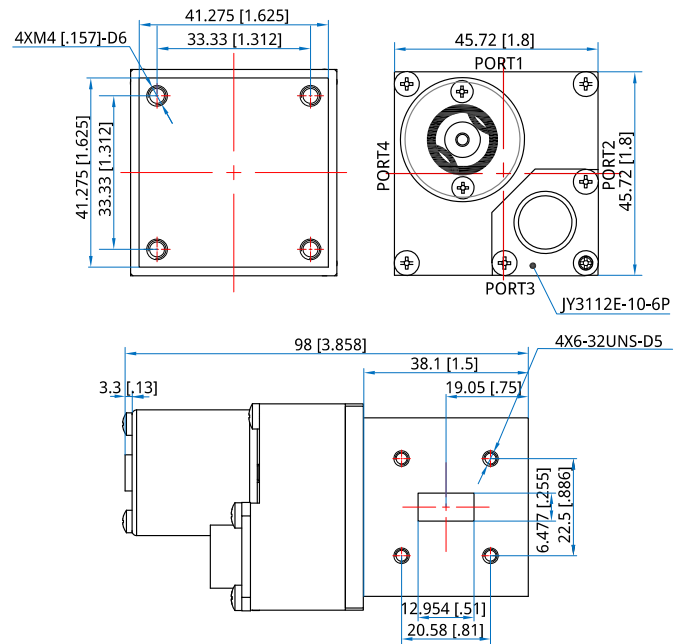
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-51-XYZ

X: Voltage. +15V: F, +24V: K.

Y: Interface Circular connector: 2.

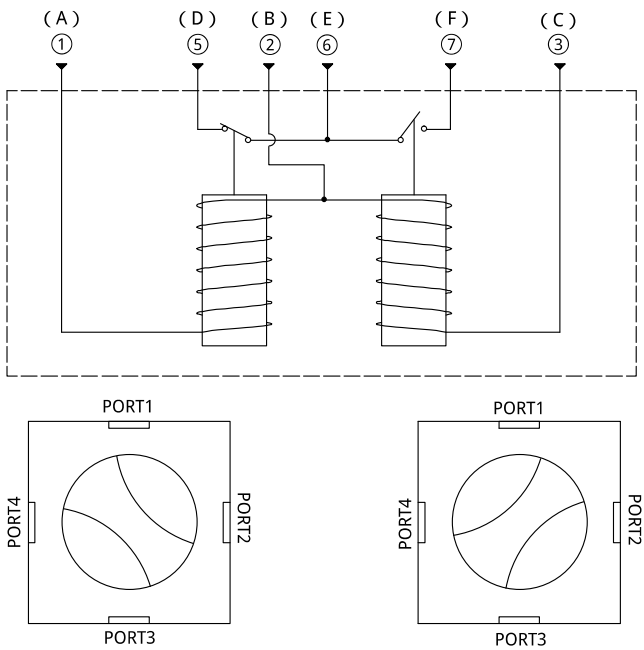
Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-51, +24V, TTL, Indicators, specify NWSD-51-K2TI.

Customization is available upon request.

Driving Schematic Diagram



NWSD-62

DPDT, 12.4~18GHz, WR-62

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	12.4~18GHz
Insertion Loss:	0.1dB max.
VSWR:	1.1 max.
Isolation:	60dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-62
Operation Life:	0.1M Cycles
Switching Time:	50mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

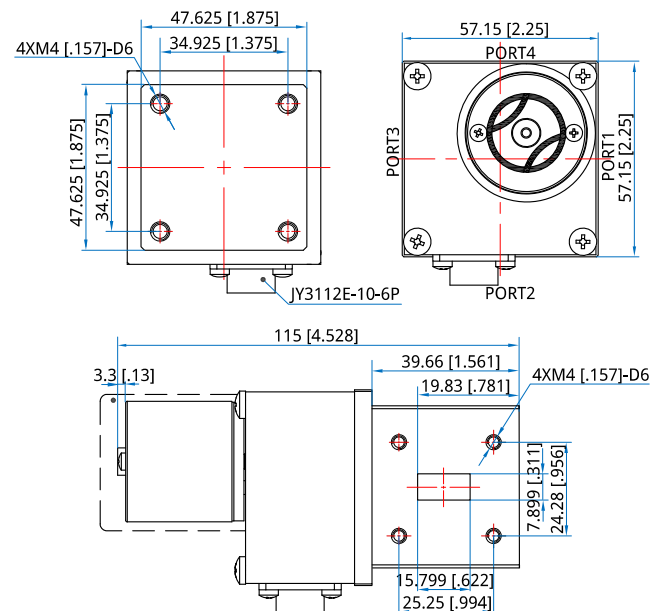
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-62-XYZ

X: Voltage. +15V: F, +24V: K.

Y: Interface Circular connector: 2.

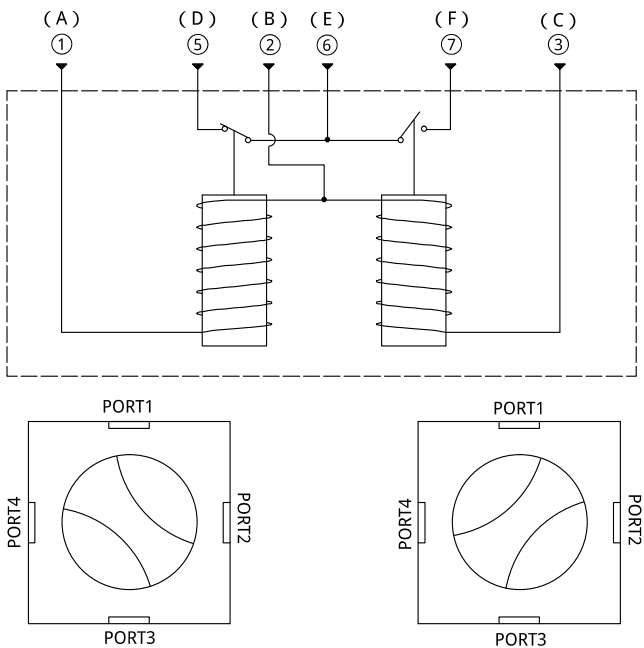
Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-62, +24V, TTL, Indicators, specify NWSD-62-K2TI.

Customization is available upon request.

Driving Schematic Diagram



NWSD-75

DPDT, 10~15GHz, WR-75

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	10~15GHz
Insertion Loss:	0.05dB max.
VSWR:	1.08 max.
Isolation:	60dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-75
Operation Life:	0.1M Cycles
Switching Time:	50mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

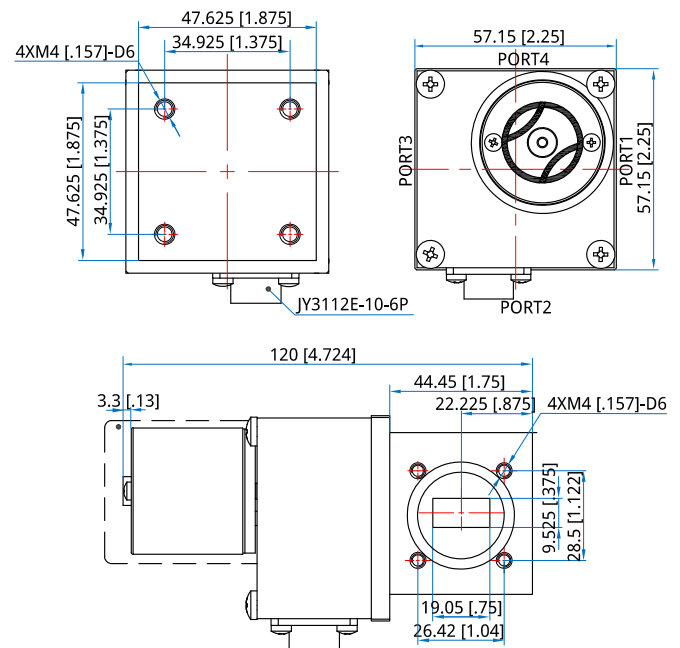
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-75-XYZ

X: Voltage. +15V: F, +24V: K.

Y: Interface Circular connector: 2.

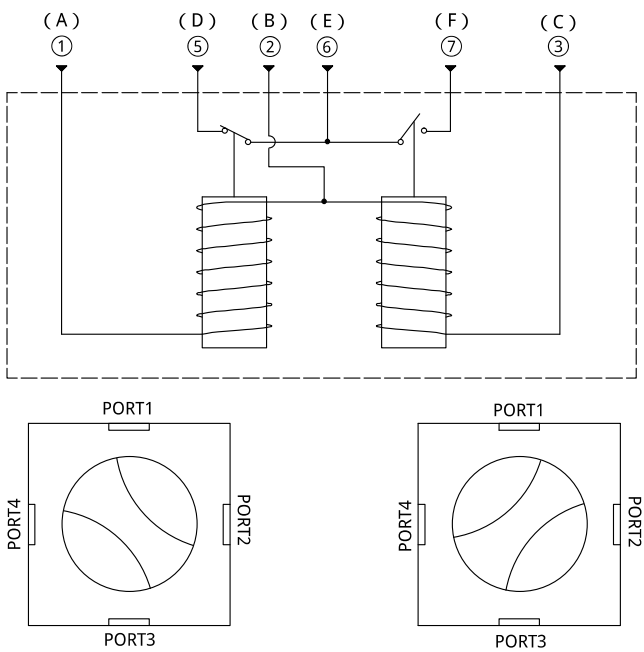
Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-75, +24V, TTL, Indicators, specify NWSD-75-K2TI.

Customization is available upon request.

Driving Schematic Diagram



NWSD-90

DPDT, 8.2~12.4GHz, WR-90

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	8.2~12.4GHz
Insertion Loss:	0.05dB max.
VSWR:	1.08 max.
Isolation:	60dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-90
Operation Life:	0.1M Cycles
Switching Time:	50mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

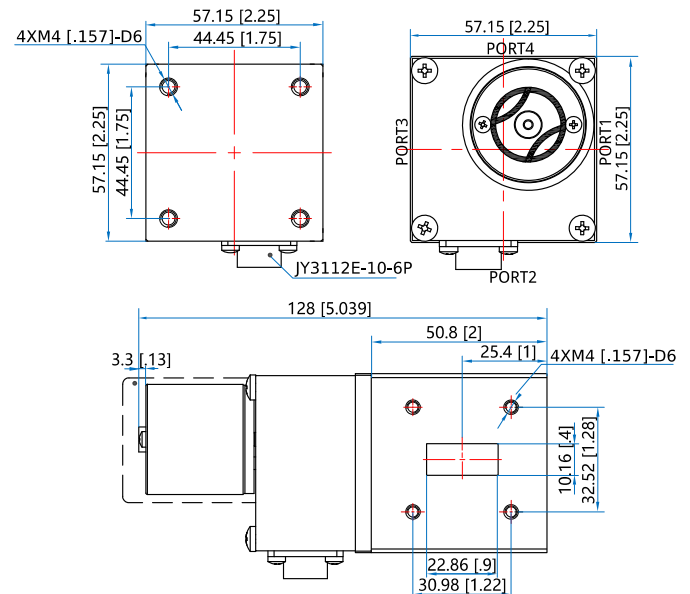
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-90-XYZ

X: Voltage. +15V: F, +24V: K.

Y: Interface Circular connector: 2.

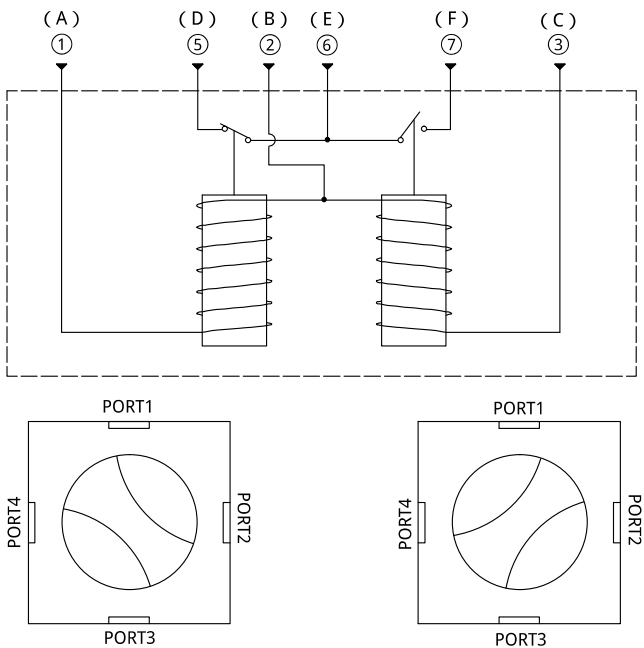
Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-90, +24V, TTL, Indicators, specify NWSD-90-K2TI.

Customization is available upon request.

Driving Schematic Diagram



NWSD-112

DPDT, 7.05~10GHz, WR-112

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	7.05~10GHz
Insertion Loss:	0.05dB max.
VSWR:	1.08 max.
Isolation:	60dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-112
Operation Life:	0.1M Cycles
Switching Time:	60mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

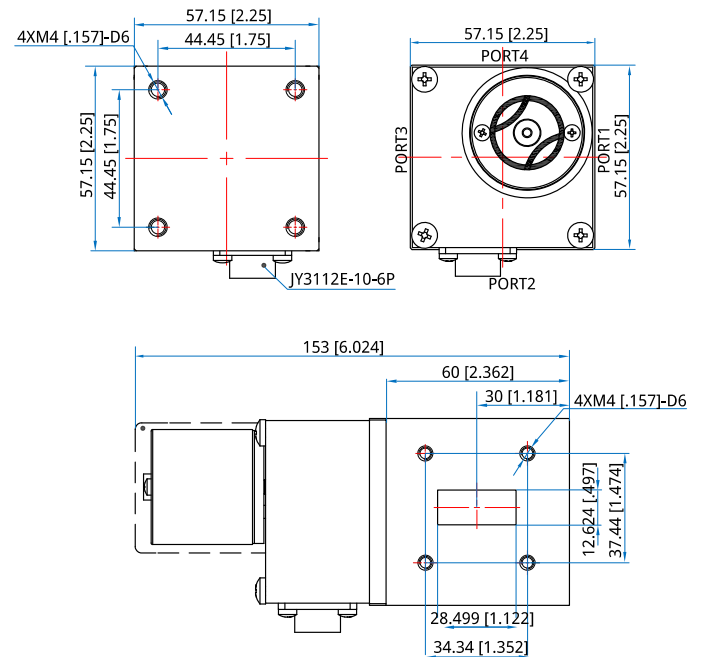
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-112-XYZ

X: Voltage. +15V: F, +24V: K.

Y: Interface Circular connector: 2.

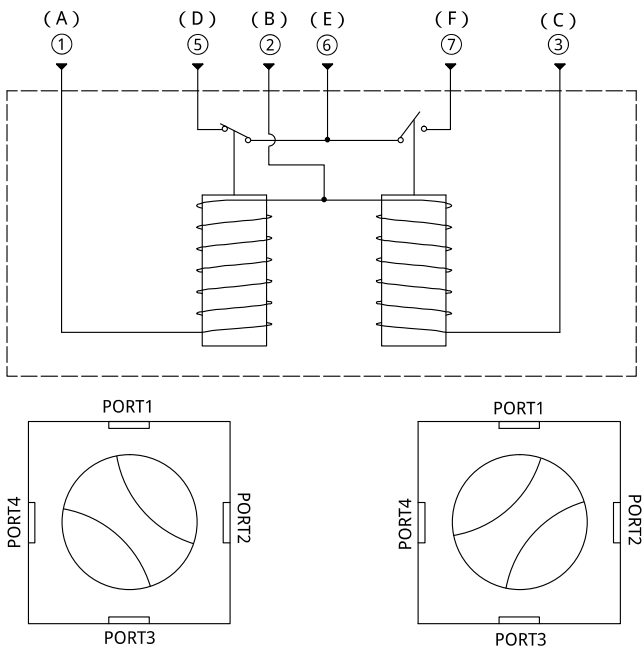
Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-112, +24V, TTL, Indicators, specify NWSD-112-K2TI.

Customization is available upon request.

Driving Schematic Diagram



NWSD-137

DPDT, 5.85~8.2GHz, WR-137

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	5.85~8.2GHz
Insertion Loss:	0.02dB max.
VSWR:	1.05 max.
Isolation:	60dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-137
Operation Life:	0.1M Cycles
Switching Time:	60mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

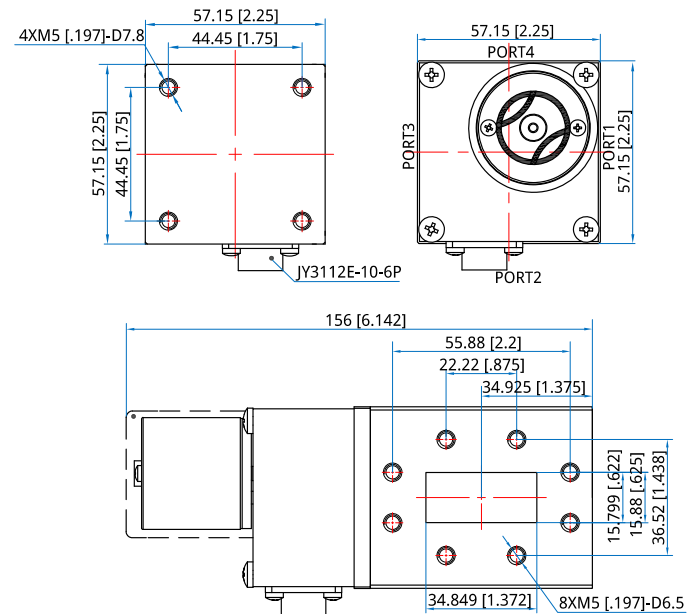
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-137-XYZ

X: Voltage. +15V: F, +24V: K.

Y: Interface Circular connector: 2.

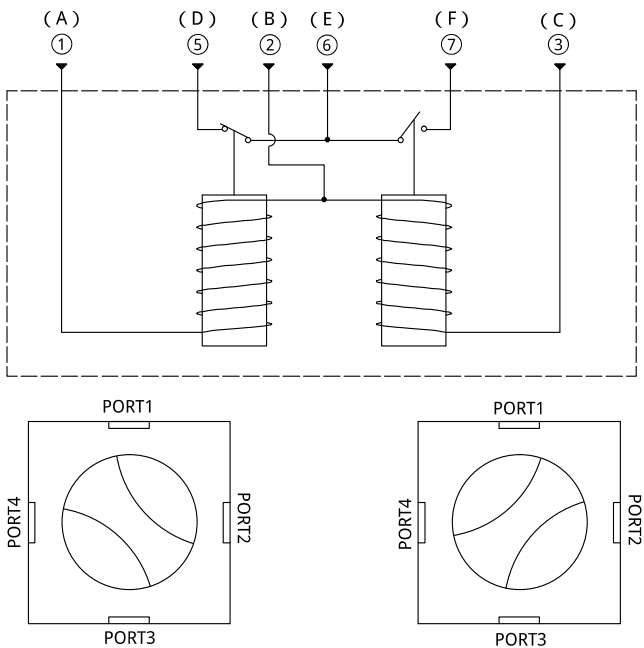
Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-137, +24V, TTL, Indicators, specify NWSD-137-K2TI.

Customization is available upon request.

Driving Schematic Diagram



NWSD-159

DPDT, 4.9~7.05GHz, WR-159

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	4.9~7.05GHz
Insertion Loss:	0.02dB max.
VSWR:	1.05 max.
Isolation:	70dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-159
Operation Life:	0.1M Cycles
Switching Time:	80mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

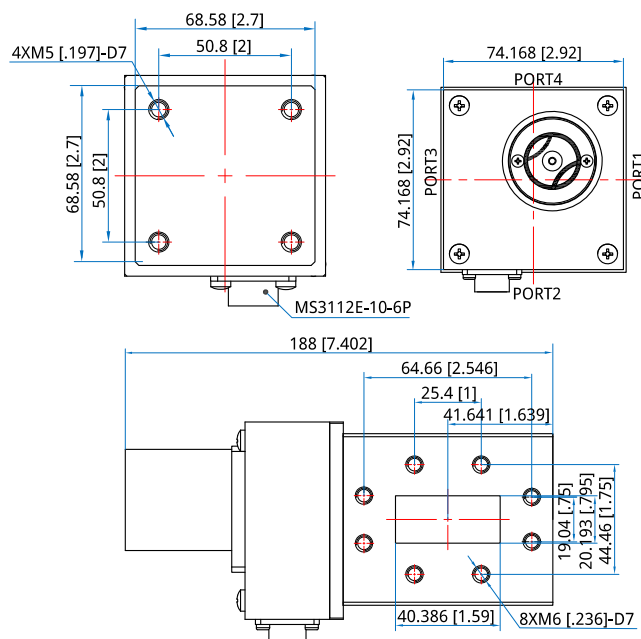
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-159-XYZ

X: Voltage. +15V: F, +24V: K.

Y: Interface Circular connector: 2.

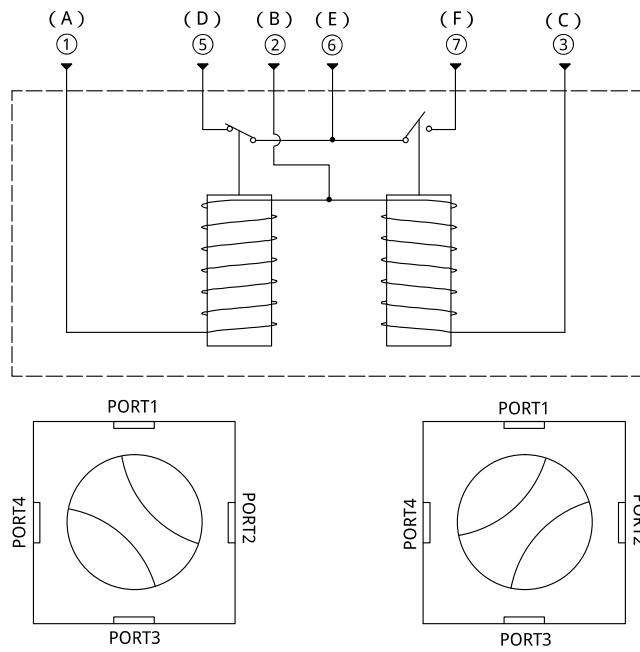
Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-159, +24V, TTL, Indicators, specify NWSD-159-K2TI.

Customization is available upon request.

Driving Schematic Diagram



NWSD-187

DPDT, 3.95~5.85GHz, WR-187

Features:

- * Low VSWR
- * High Isolation
- * Low Insertion Loss

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	3.95~5.85GHz
Insertion Loss:	0.02dB max.
VSWR:	1.05 max.
Isolation:	80dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

Mechanical

Interface:	WR-187
Operation Life:	0.1M Cycles
Switching Time:	80mS

Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

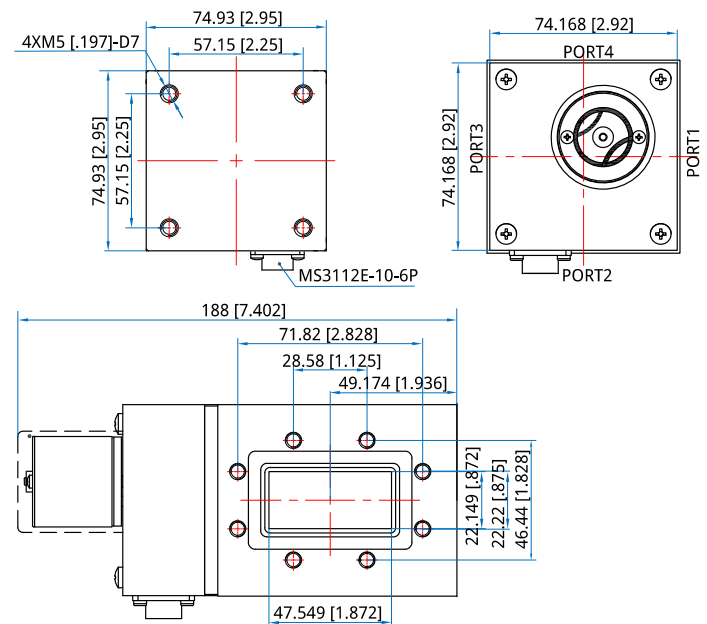
Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

How To Order

NWSD-187-XYZ

X: Voltage. +15V: F, +24V: K.

Y: Interface Circular connector: 2.

Z: Additional Options.

Examples:

To order a Waveguide Switch, DPDT, WR-187, +24V, TTL, Indicators, specify NWSD-187-K2TI.

Customization is available upon request.

Driving Schematic Diagram

