



## Description

Mi-Wave's 911 Series PIN Diode or MMIC switch is a SPST (912 Series is SPDT) reflective switch that combines

low loss, high isolation performance

with an tegra TTL driver in a compact package. They are available in standard waveguide bands from 18 - 110GHz. Various driver options are available in higher isolation versions up to 60 dB. These switches can also be supplied without drivers. For higher speed applications, the 911 Series Switches feature an excellent on/off ratio and a 10% bandwidth. Integral drivers are standard with various driver options available.

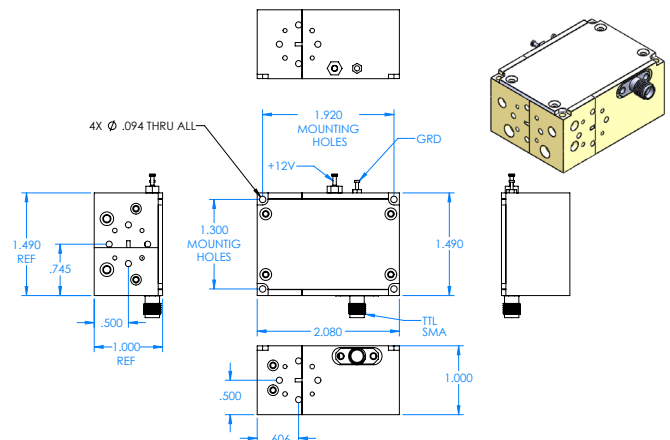
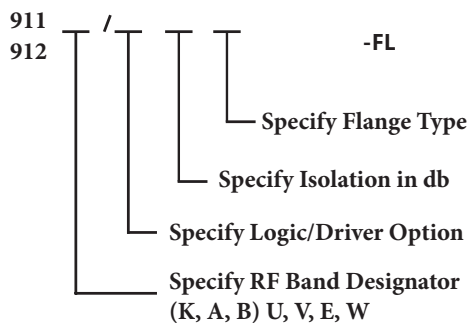
- **Series 911 Single Throw Switches (SPST) - 10% Bandwidth**

## Applications

Both series and PIN switches can be used for a variety of applications including wave shaping, duplexing, pulse modulation, signal switching, and receiver protection.

## Ordering Information

Please specify center frequency at time of order.



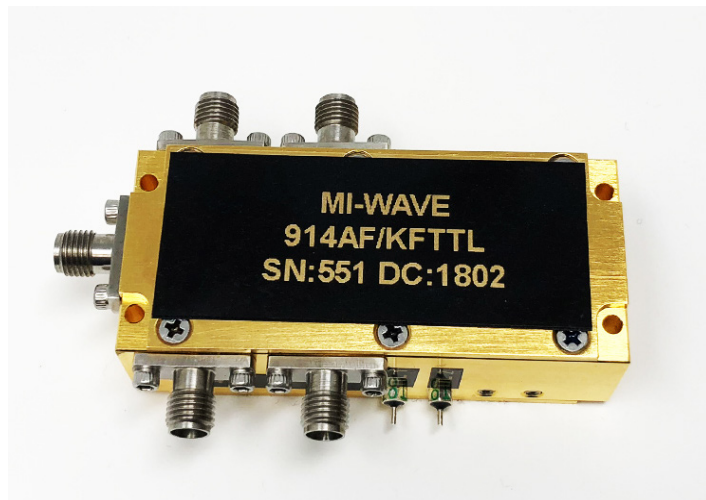
**NOTE:**

Technical Specifications (typical)							
Model No.	K	A	B	U	V	E	W
Frequency	18-26.5 GHz	26.5-40 GHz	33-50 GHz	40-60 GHz	50-75 GHz	60-90 GHz	75-110 GHz
Insertion Loss (dB) typical	1.5   2.5	1.8   2.8	2   3	2   3	3   4	3.5   X	4   X
Isolation (dB) typical	30   60	30   60	30   60	30   60	30   60	35   X	35   X
Rise/Fall Time (ns)	10	10	10	10	10	10	10
Bias (volts)	8	8	8	8	8	8	8
Power Handling (dBm) - nominal	17	17	17	17	17	17	17
Power Handling (dBm) - max	23	23	23	23	23	23	23
Input/Output	WR-42 Waveguide UG- 595 Flange OR SMA-F	WR-42 Waveguide UG- 595 Flange OR SMA-F	WR-42 Waveguide UG- 595 Flange OR SMA-F	WR-42 Waveguide UG- 595 Flange OR SMA-F	WR-42 Waveguide UG- 595 Flange OR SMA-F	WR-42 Waveguide UG- 595 Flange OR SMA-F	WR-42 Waveguide UG- 595 Flange OR SMA-F
Control	TTL	TTL	TTL	TTL	TTL	TTL	TTL
Control Port	SMA-F	SMA-F	SMA-F	SMA-F	SMA-F	SMA-F	SMA-F

Please consult Mi-Wave for current outline dimensions and insertion loss versus isolation specifications.

For A, B and U bands customer please consult Mi-wave.

For Coaxial Switches please consult Mi-wave.



## Description

Use MI-Wave's multithrow PIN Switches for a variety of applications that require multiple throws and/or custom switch configuration. These

- *Series 911 Single Throw Switches (SPST) - 10% Bandwidth*

Switches offer low insertion loss and a wide bandwidth of operation for a isolation level. Waveguide and coaxial versions are available depending on the operating frequency. These switches are ideally suited for signal attenuation and switching for receiver protection, antenna switching, test and measurement sets and transreceivers. Switch drivers that accepts TTL signals may be incorporated in these switches as an optional feature.

## Applications

PIN switches can be used for a variety of applications including wave shaping, duplexing, pulse modulation, signal switching, and receiver protection.

## Operating Specifications

Configurations	SP3T to SP8T
Insertion Loss	1 - 6dB depending on configuration & freq.*
Frequency Range	8 - 110GHz
Switching Speed	1 - 50ns
Isolation	20 db to 60db

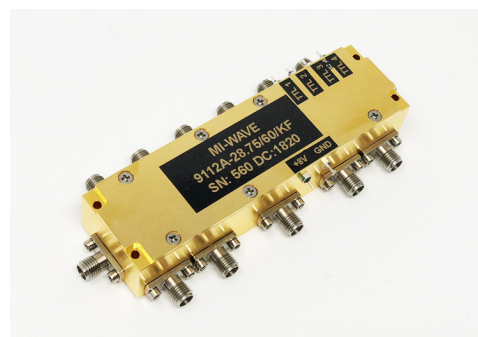
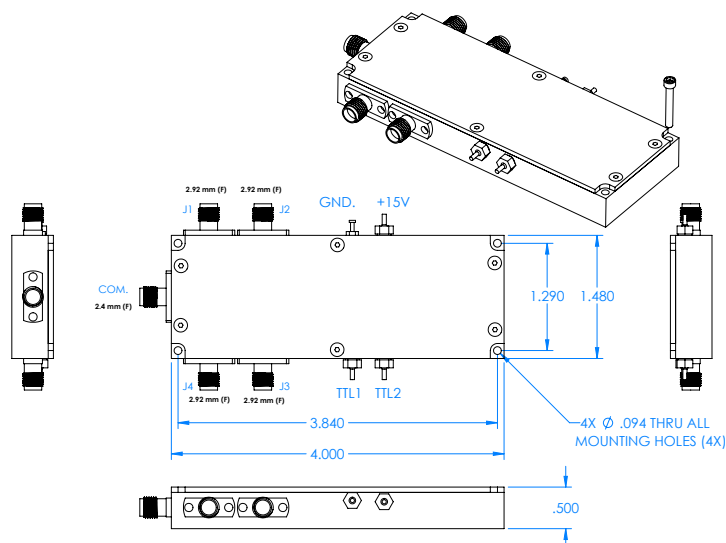
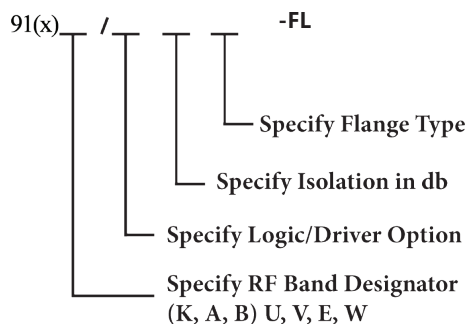
### NOTE:

Please consult Mi-Wave for current outline dimensions and insertion loss versus isolation specifications.

For A, B and U bands customer please consult Mi-wave.

For Coaxial Switches please consult Mi-wave.

## Ordering Information



9112A-28.75/60/KF