

# 530 Series

# Manual Waveguide Switches



## Features

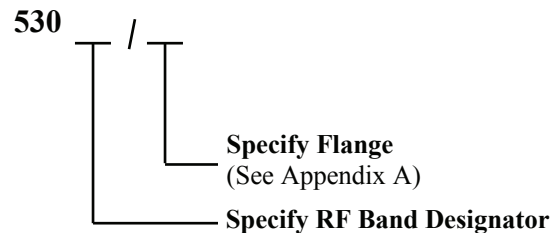
- Positive Indexing
- Optimum Isolation
- Non-Contacting Choke Coupling
- Versatile Switching Combinations

## Description

## 530 Series Switches

**Mi-Wave's** 530 series manual switches are designed for use in standard millimeter wave frequency bands from 12.4 to 220 GHz. Each unit will operate over the full waveguide bandwidth with minimum insertion loss, minimum VSWR, and maximum isolation between coupled and uncoupled waveguide sections.

## Ordering Information



## Applications

The 530 series manual waveguide switches are used for transmission switching applications in millimeter wave systems. These versatile devices provide a variety of switching combinations using three waveguide channels and three positions. In a typical radar application, a three-position switch can be used manually to switch one of two transmitters to a common antenna, while simultaneously connecting the other transmitter to a suitable termination. A manual switch will also provide a convenient means for alternately connecting a test antenna and standard horn to gain-measuring test equipment.

## **Mi-Wave**

Millimeter Wave Products Inc.

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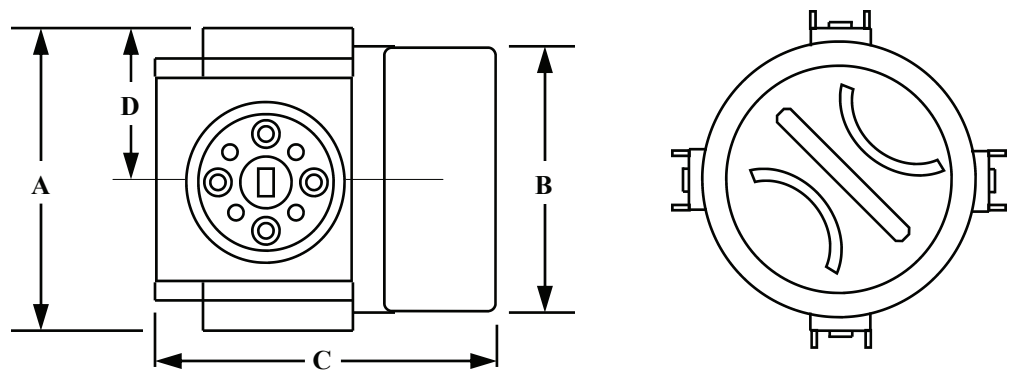
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# 530 Series Manual Waveguide Switches

## Technical Specifications

Model Number	530A	530B	530U	530V	530E	530W	530F	530D	530G
Frequency Band (GHz)	26.5-40.0	33.0-50.0	40.0-60.0	50.0-75.0	60.0-90.0	75.0-110.0	90.0-140.0	110.0-170.0	140.0-220.0
Isolation (dB) Min.	50	50	50	50	45	40	40	35	30
Insertion Loss (dB) Max.	0.3	0.3	0.3	0.3	0.4	0.5	0.7	0.9	1.0
VSWR Max.	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.20	1.25



## Dimensional Specifications

Model Number	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm
530A/599	1.97	50.0	1.85	47.0	2.10	53.3	.985	25.0
530B/383	1.97	50.0	1.85	47.0	2.10	53.3	.985	25.0
530U/383	1.97	50.0	1.85	47.0	2.10	53.3	.985	25.0
530V/385	1.97	50.0	1.85	47.0	2.10	53.3	.985	25.0
530E/387	1.97	50.0	1.85	47.0	2.10	53.3	.985	25.0
530W/387	1.97	50.0	1.85	47.0	2.10	53.3	.985	25.0
530D/387	1.76	44.7	1.85	47.0	2.10	53.3	.880	22.4
530G/387	1.76	44.7	1.85	47.0	2.10	53.3	.880	22.4

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