530 Series Manual Waveguide Switches

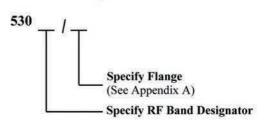




Features

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

Ordering Information



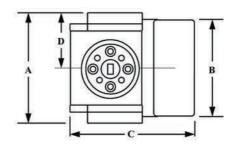
Description

Mi-Wave's 530 series manual switches are designed for use in standard millimeter wave frequency bands from 8.4 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.

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.

Other frequency bands and custom configurations available. WR-42 and lower will be E-Plane Types





Dimensional Specifications

Model No	A		В		С		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

Technical Specifications (typical)

Model Number	530A	530B	530U	530V	530E	530W	530F	530D	530G
Frequency	26.5-	33.0-	40.0-	50.0-	60.0-	75.0-	90.0-	110.0-	140.0-
Band (GHz)	40.0	50.0	60.0	75.0	90.0	110.0	140.0	170.0	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