



# MI-513nn Diplexer 2300/2600



The MI-513nn family of cavity diplexer products include:

- **MI-513nA**, diplexer with DC/AISG Auto Sense
- **MI-513n1**, all ports DC grounded
- **MI-513n2**, diplexer with DC/AISG on Common – High & Low Band
- **MI-513n3**, diplexer with DC/AISG on Common - High Band, Low port DC grounded
- **MI-513n4**, diplexer with DC/AISG on Common - Low Band, High port DC grounded

## MASS™

### Microdata Advanced Site Solutions

With our expertise in site system design we are able to provide a solution for any site sharing or upgrade scenario.

Our focus area is RF-filter based solutions including combiners, multi band TMAs, di-, tri- and quadruplexers.

Our product portfolio supports all frequencies for mobile communication bands ranging from 450 MHz to 6 GHz.

Site and network sharing makes it cost efficient to reach sparsely populated areas where new subscribers can contribute to revenue.

## MASS™

### Advantage

#### Increases coverage

more traffic & higher ARPU

#### Increases capacity

more traffic & higher ARPU

#### Reduces the cost

of network expansion

#### Minimizes

site acquisition issues

## Specifications

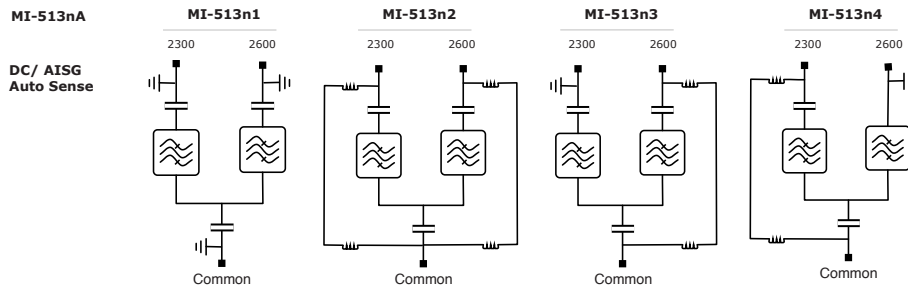
Low band		
Frequency Band	2300 - 2400 MHz	
Insertion Loss	0.18 dB*, 0.25 dB max	
Return Loss	> 18 dB	
Rejection High Band	50 dB	
Continuous Average Power	250 W	
Intermodulation, 2x43 dBm TX Carrier	N.A	
High Band		
Frequency Band	2500 - 2690 MHz	
Insertion Loss	0.18 dB*, 0.2 dB max	
Return Loss	> 18 dB	
Rejection Low Band	50 dB	
Continuous Average Power	250 W	
Intermodulation, 2x43 dBm TX Carrier	-117 dBm	
Environmental		
Operating Temperature Range	-40 to +65°C   -40° to +149°F	
Operation	ETS 300 019-1-4 Class 4.1E	
Storage	ETS 300 019-1-1 Class 1.2	
Ingress Protection	IP67	
Electrical		With Auto-Sense
DC By Pass	3 A	2 A, drop max 2.4 V
AISG pass	Yes	
AISG RL		>12 dB
AISG Loss		<1 dB
Lightning Protection		10 kA 8/20 µs
Input Voltage Power		8-31 V max 0.3 W
Mechanical		Single Mount
Dimensions (WxHxD)	110x120x50 mm	TBD
	4.33X4.72X1.97 in	
Volume	0.7 l	
Weight	1.4 kg	
	3.09 lb	
Connectors	See Selection Guide	
Mounting	Hose clamps or wall mount (Supporter Pole Diameter: 40-140mm)	
Colour	NCS 1502-R	
Bracket	Included	
* Typical		

## Selection Guide

		Connector (F)	
		7/16	4.3-10
Mount	Single	MI-5130n	MI-5133n
	Dual	MI-5131n	MI-5134n

\*The dual filter configuration is mounted on a single bracket for hose clamp or wall mount.

### Block Diagram



### Mechanical Drawing

\*This picture is showing MI-5130A

