



# MI-527nn Diplexer 700/800



\*This picture is showing MI-52731

The MI-527nn family of cavity diplexer products, include:

- **MI-527n1**, all ports DC grounded
- **MI-527n2**, diplexer with DC/AISG on Common – High & Low Band
- **MI-527n3**, diplexer with DC/AISG on Common - High Band, Low port DC grounded
- **MI-527n4**, diplexer with DC/AISG on Common - Low Band, High port DC grounded
- **MI-527nA**, auto-sense

## 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

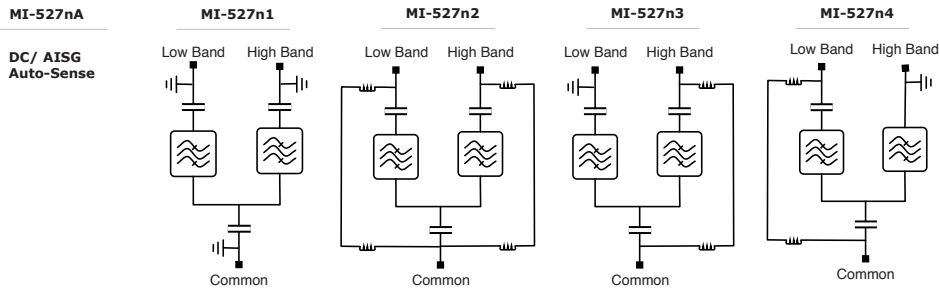
Low band		
Frequency Band	703 - 778 MHz (MI-5270n, MI-5271n, MI-5273n, MI-5274n) 713 - 788 MHz (MI-5275n, MI-5276n, MI-5277n, MI-5278n)	
Insertion Loss	0.2 dB*, max 0.5 dB	
Return Loss	>18 dB	
Rejection High band	>50 dB 800 RX	>35 dB 800 TX
Continuous Average Power	250 W	
Intermodulation, 2x43 dBm TX Carrier	-117 dBm	
High Band		
Frequency Band	791 - 862 MHz (MI-5270n, MI-5271n, MI-5273n, MI-5274n) 801 - 862 MHz (MI-5275n, MI-5276n, MI-5277n, MI-5278n)	
Insertion Loss	0.2 dB*, max 0.5 dB	
Return Loss	>18 dB	
Rejection Low band	>50 dB 700 RX	>35 dB 700 TX
Continuous Average Power	250 W	
Intermodulation, 2x43 dBm TX Carrier	-117 dBm	
Environmental		
Operating Temperature Range	-40 to +65°C	
Operation	ETS 300 019-1-4	
Storage	ETS 300 019-1-1	
Ingress Protection	IP67	
Electrical		With Auto-Sense
DC By Pass	3 A	2A, drop max 2.4V
AISG pass	Yes	
AISG RL		> 12dB
AISG Loss		< 1 dB
MTBF		1 Mh min
Input Voltage Power		8-31 V max 0.3W
Safety	EN 60950	
Lightning Protection	5 kA 8/20 µs	5 kA 8/20 µs
Mechanical		
Dimensions (WxHxD)	170 x 170 x 54.5 mm single unit Prel	
Connectors	See Selection Guide	
Mounting	Hose clamps or wall mount	
Volume	1.2 l	
Weight	1.6 kg	
Colour	NCS 1502-R	
*typical		

## Selection Guide

		Connector (F)	
		7/16	4.3-10
Mount	Single	MI-5270n	MI-5273n
		MI-5275n	MI-5277n
	Dual	MI-5271n	MI-5274n
		MI-5276n	MI-5278n

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

### Block Diagram



### Mechanical Drawing

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