



MI-581nn Diplexer 700-800/900

The MI-581nn family of cavity diplexer products, include:

- **MI-581nA**, diplexer with DC/AISG Auto-Sense
- **MI-581n1**, diplexer with all ports DC grounded
- **MI-581n2**, diplexer with DC/AISG on Common – High & Low Band
- **MI-581n3**, diplexer with DC/AISG on Common - High Band, Low port DC grounded
- **MI-581n4**, diplexer with DC/AISG on Common - Low Band, High port DC grounded



This picture is showing MI-581n3

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

WW

Low band		
Frequency Band	699 - 862 MHz	
Insertion Loss	0.2 dB*, 0.4 dB max.	
Return Loss	>18 dB	
Rejection 925 - 960 MHz	>50 dB	
Continuous Average Power	400 W	
Intermodulation, 2x43 dBm TX Carrier	-117 dBm	
High Band		
Frequency Band	876 - 960 MHz	
Insertion Loss	0.2 dB*, 0.4 dB max.	
Return Loss	>18 dB	
Rejection 699 - 821 MHz	>50 dB	
Continuous Average Power	400 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 1.2	
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
Lightning Protection		5 kA 8/20 µs
Input Voltage Power		8-30 V max 0.3 W
Mechanical		Single Mount Dual Mount
Dimensions (WxHxD)	158x183x58 mm 6.22x7.20x2.28 in	158x183x108 mm 6.22x7.20x4.25 in
	With Auto-Sense 158x183x69 mm 6.22x7.20x2.71 in	158x183x137 mm 6.22x7.20x5.39 in
Volume	1.4 l	3.1 l
	With Auto-Sense 2.0 l	4.0 l
Weight	2.3 kg 5.0 lb	3.9 kg 8.6 lb
	With Auto-Sense 2.8 kg 6.2 lb	4.9 kg 10.8 lb
Connectors	See Selection Guide	
Mounting	Hose clamps or wall mount. Pole Diameter: 40-140mm	
Colour	NCS 1502-R	
Bracket	Included	
Shipping Information		Single Mount Dual Mount
Shipping weight (or Gross weight, including packaging)	TBD	TBD
Carton Size*	TBD	TBD
Carton Qty/Pallet	TBD	45
*The Carton Size of different models varies, please contact us for detailed information		
* Typical		

Selection Guide

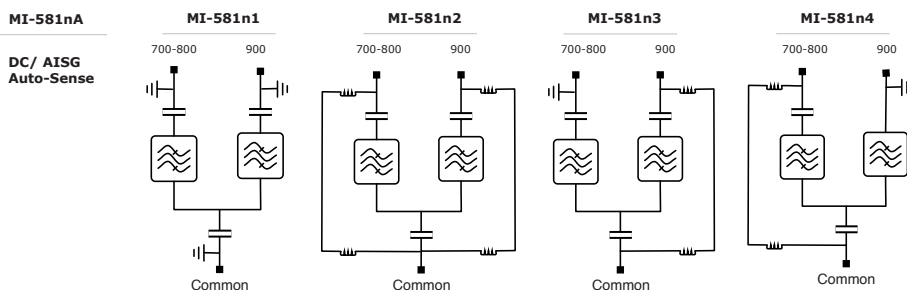
		Connector (F)	
		7/16	4.3-10
Mount	Single	MI-5810n	MI-5813n
	Dual	MI-5811n	MI-5814n

Auto-Sense: MI-581nA

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

Block Diagram

DC/AISG



	700-800	900
MI-581nA	Auto-Sense	
MI-581n1	Block	Block
MI-581n2	Pass	Pass
MI-581n3	Block	Pass
MI-581n4	Pass	Block

Mechanical Drawing

The picture is showing MI-5813n

