



# MI-551nn

## Triplexer

### 700 - 900/L-band/1800-2100



This picture is showing MI-5513n

## 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

Port 1 (700-900) - Common		
Frequency Band	698 - 960 MHz	
Insertion Loss	0.1 dB typ, 0.2 dB max	
Return Loss	> 18 dB	
Rejection 1427 - 2170 MHz	50 dB	
Continuous Average Power	250 W	
Intermod. (IM3), 2x43 dBm TX Carrier	-117 dBm	
Port 2 (L-band) - Common		
Frequency Band	1427 - 1517 MHz	
Insertion Loss	0.25 dB typ	
Return Loss	> 18 dB	
Rejection 698 - 960 MHz	50 dB	
Rejection 1710 - 2170 MHz	50 dB	
Continuous Average Power	250 W	
Port 3 (1800-2100) - Common		
Frequency Band	1710 - 2170 MHz	
Insertion Loss	0.2 dB typ	
Return Loss	> 18 dB	
Rejection 698 - 1517 MHz	50 dB	
Continuous Average Power	250 W	
Intermod. (IM7), 2x43 dBm TX Carrier	-117 dBm	
Environmental		
Operating Temperature Range	-40° to +65°C   -40° to +149°F	
Environmental	ETS 300 019	
Ingress Protection	IP67	
Electrical		
DC By Pass	3 A	With Auto-Sense 2A, drop max 2.4V
AISG pass	Yes	
AISG RL		>12dB
AISG Loss		< 1 dB
Lightning Protection		10 kA 8/20 µs
Input Voltage Power		8-30 V max 0.3 W
Mechanical		
Dimensions (WxHxD)	Single Mount 160x166x50 mm 6.30x6.54x1.97 in	Dual Mount To be added
Volume	1.3 l	
Weight (including brackest)	2.6 kg   5.73 lb	
Connectors	See Selection Guide	
Mounting	Hose clamps or wall mount. Supporter Pole Diameter: 40-140mm	
Colour	NCS 1502-R (light grey)	
Bracket	Included	
* typical		



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### Selection Guide

		Connector (F)	
		7/16	4.3-10
Mount	Single	MI-5510n	MI-5513n
	Dual	MI-5511n	MI-5514n

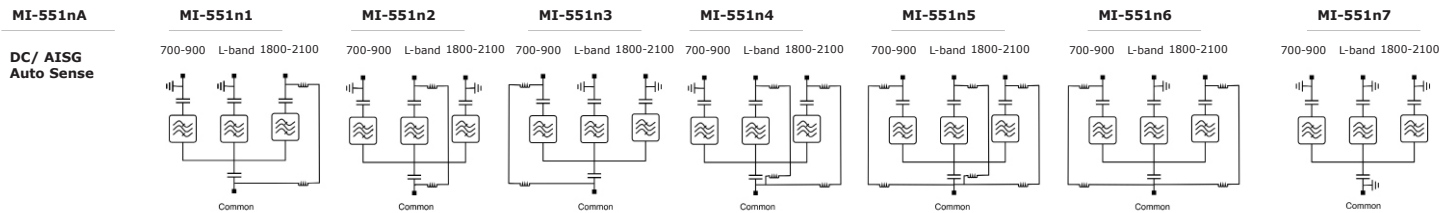
Auto-Sense: MI-551nA

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

### DC/AISG

	700-900	L-band	1800-2100
MI-551nA	Auto-Sense		
MI-551n1	Block	Block	Pass
MI-551n2	Block	Pass	Block
MI-551n3	Pass	Block	Block
MI-551n4	Block	Pass	Pass
MI-551n5	Pass	Pass	Pass
MI-551n6	Pass	Block	Pass
MI-551n7	Block	Block	Block

### Block Diagram



### Mechanical Drawing

This picture is showing MI-5513n

