



MI-550nn Diplexer 700-900/L-band



This picture is showing MI-5503n

The MI-550nn family of cavity diplexer products, include:

- **MI-550n1**, all ports DC grounded
- **MI-550n2**, diplexer with DC/AISG on Common – High & Low Band
- **MI-550n3**, diplexer with DC/AISG on Common - High Band, Low port DC grounded
- **MI-550n4**, diplexer with DC/AISG on Common - Low Band, High port DC grounded
- **MI-550nA**, 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	698 - 960 MHz	
Insertion Loss	< 0.2 dB *	
Return Loss	> 18 dB	
Rejection High Band	50 dB	
Continuous Average Power / Peak Power	250 W / 2000 W	
Intermodulation, 2x43 dBm TX Carrier	-117 dBm (160 dBc)	
High Band		
Frequency Band	1427 - 1517 MHz	
Insertion Loss	< 0.25 dB *	
Return Loss	> 18 dB	
Rejection Low Band	50 dB	
Continuous Average Power / Peak Power	250 W / 2000 W	
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 2.4V
AISG pass	Yes	
AISG RL		> 12 dB
AISG Loss		< 1 dB
Lightning Protection	+/-5 kA 8/20 µs	+/-5 kA 8/20 µs
Input Voltage Power		8-30 V Max 0.3W
Mechanical		Dual Band
Dimensions (WxHxD)	99x143x52.5 mm 3.90x5.63x2.07 in	TBD
With Auto-Sense	TBD	
Volume	0.7 l	
With Auto-Sense	TBD	
Weight (including brackets)	TBD	
Connectors	See Selection Guide for specification	
Mounting	Hose clamps or wall mount (Supporter Pole Diameter: 40-140mm)	
Colour	NCS 1502-R	
Bracket	Included	
* Typical		
- Values in specification are subject to change without notice		

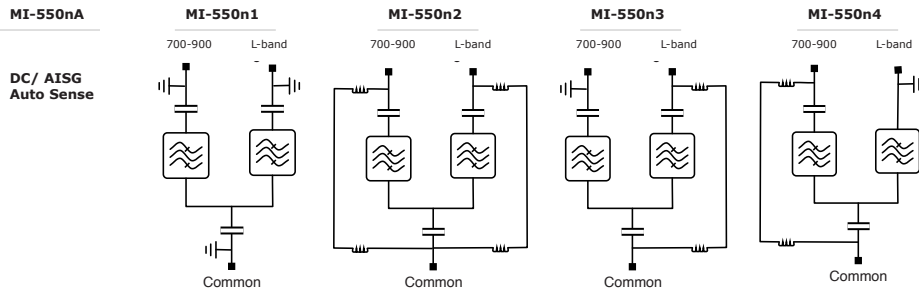
Selection Guide

		Connector (F)	
		7/16	4.3-10
Mount	Single	MI-5500n	MI-5503n
	Dual	MI-5501n	MI-5504n

Auto-Sense: MI-550nA

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

Block Diagram



DC/AISG

	700-900	L-band
MI-550nA	Auto-Sense	
MI-550n1	Block	Block
MI-550n2	Pass	Pass
MI-550n3	Block	Pass
MI-550n4	Pass	Block

Mechanical Drawing

This picture is showing MI-5503n

