



# MI-505nn

## Quadruplexer

### 700-900/1800/2100/2300-2600



\*This photo is showing MI-50501

## 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	< 0.2 dB
Return Loss, normal modes, all ports	> 18 dB
Rejection 1710 - 2690 MHz	50 dB
Continuous Average Power	250 W
Intermod. (IM3), 2x43 dBm TX Carrier	-117 dBm
Port 2 (1800) - Common	
Frequency Band	1710 - 1880 MHz
Insertion Loss	< 0.4 dB
Return Loss	> 18 dB
Rejection 1920 - 2690 MHz	50 dB
Rejection 698 - 960 MHz	50 dB
Continuous Average Power	250 W
Intermod. (IM3), 2x43 dBm TX Carrier	-117 dBm
Port 3 (2100) - Common	
Frequency Band	1920 - 2170 MHz
Insertion Loss, 1920 - 1980 MHz	0.25 dB typ, 0.5 dB max.
Insertion Loss, 2110 - 2170MHz	< 0.2 dB
Return Loss	> 18 dB
Rejection 698 - 1880 MHz	55 dB
Rejection 2300 - 2690 MHz	50 dB
Continuous Average Power	250 W
Intermod. (IM7), 2x43 dBm TX Carrier	-125 dBm
Port 4 (2300-2600) - Common	
Frequency Band	2300 - 2690 MHz
Insertion Loss, 2300 - 2690 MHz	< 0.2 dB
Return Loss	> 18 dB
Rejection 698 - 2170 MHz	50 dB
Continuous Average Power	250 W
Intermod. (IM3), 2x43 dBm TX Carrier	-117dBm
Environmental	
Operating Temperature Range	-40° to +65°C
Environmental	ETS 300 019
Ingress Protection	IP67
Electrical	
Lightning Protection	IEC61000-4.5
DC Pass Current	3.0 A continuous max.
AISG pass	Yes
MTBF	1 Mh min.
Safety	EN60950
Mechanical	
Dimensions (WxHxD)	250 x 160 x 49 mm
Connectors	See Selection Guide
Mounting	Hose clamps or wall mount
Volume	1.96 l
Weight	2.5 kg
Colour	NCS 1502-R (light grey)
	* typical

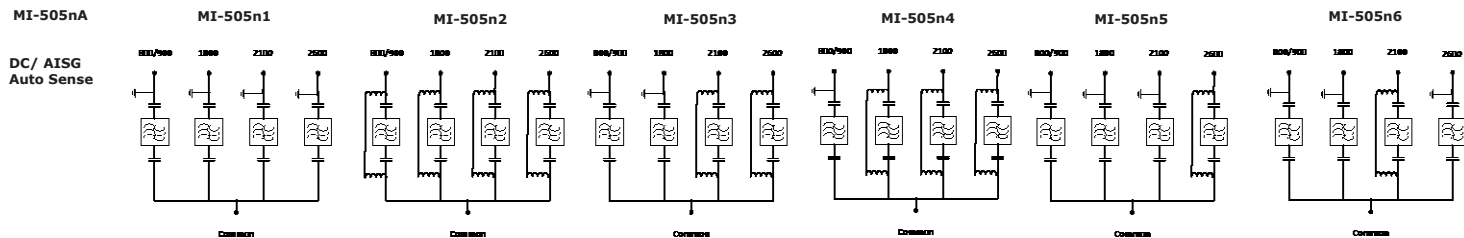
## Selection Guide

		Connector (F)	
		7/16	4.3-10
Mount	Single	MI-5050n	MI-5053n
	Dual	MI-5051n	MI-5054n

#### Auto-Sense: MI-505nA

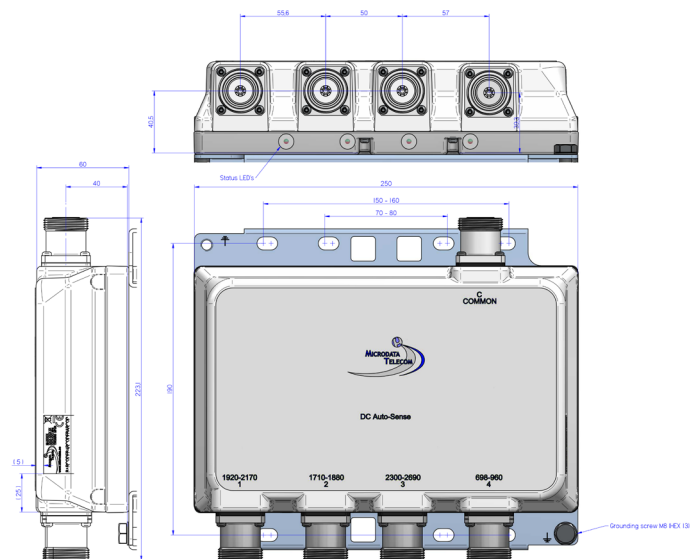
\*The dual filter configuration is mounted on a single bracket for hose clamp or wall mount.

### Block Diagram



### Mechanical Drawing

\*This picture is showing MI-50501



\*This picture is showing MI-5050A

