



# MI-248nn

## Quadruplexer

### 800/900/1800/2100



\*This photo is showing MI-2480n

## 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 (800) - Common		
Frequency Band	790 - 862 MHz	
Insertion Loss	0.2 dB*, 0.5 dB max	
Return Loss	> 18 dB	
Rejection 880 - 2170 MHz	> 50 dB (> 30 900 RX)	
Continuous Average Power	250 W	
Intermod. (IM3), 2x43 dBm TX Carrier	-117 dBm	
Port 2 (900) - Common		
Frequency Band	880 - 960 MHz	
Insertion Loss	0.2 dB*, 0.5 dB max	
Return Loss	> 18 dB	
Rejection 790 - 862 MHz	> 50 dB TX >30 dB RX	
Rejection 1710 - 2170 MHz	50 dB	
Continuous Average Power	250 W	
Intermod. (IM3), 2x43 dBm TX Carrier	-117 dBm	
Port 3 (1800) - Common		
Frequency Band	1710 - 1880 MHz	
Insertion Loss	0.2 dB*, 0.4 max	
Return Loss	> 18 dB	
Rejection 790 - 960 MHz & 1920- 2170 MHz	50 dB	
Continuous Average Power	250 W	
Intermod. (IM3), 2x43 dBm TX Carrier	-117 dBm	
Port 4 (2100) - Common		
Frequency Band	1920 - 2170 MHz	
Insertion Loss	0.2 dB*, 0.5 max	
Return Loss	> 18 dB	
Rejection 790 - 1880 MHz	50 dB	
Continuous Average Power	250 W	
Intermod. (IM7), 2x43 dBm TX Carrier	-125 dBm	
Environmental		
Operating Temperature Range	-40° to +65°C   -40° to +149°F	
Environmental	ETS 300 019-1-4 Class 4.1E	
Ingress Protection	IP68	
Safety	IEC/EN 62368-1	
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)	264x160x58 mm 10.39x6.30x2.28 in	264x160x123.5 mm 10.39x6.30x4.86 in
With Auto-Sense	To be added	To be added
Volume	2.4 l	5.2 l
Weight	4.5 kg   9.92 lb	To be added
Connectors	See Selection Guide	
Mounting(Supporter Pole Diameter: 40-140mm)	Hose clamps or wall mount.	
Colour	NCS 1502-R (light grey)	
Bracket	Included	
*Typical		

## Selection Guide

		Connector (F)	
		7/16	4.3-10
Mount	Single	MI-2480n	MI-2483n
	Dual	MI-2481n	MI-2484n

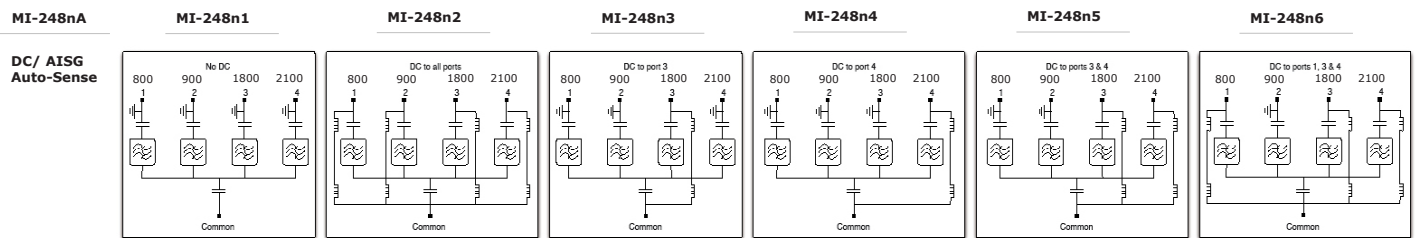
Auto-Sense: MI-248nA

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

## DC/AISG

	800	900	1800	2100
MI-248nA	Auto-Sense			
MI-248n1	Block	Block	Block	Block
MI-248n2	Pass	Pass	Pass	Pass
MI-248n3	Block	Block	Pass	Block
MI-248n4	Block	Block	Block	Pass
MI-248n5	Block	Block	Pass	Pass
MI-248n6	Pass	Block	Pass	Pass
MI-248n7	Pass	Pass	Block	Block

## Block Diagram



## Mechanical Drawing

\*This picture is showing MI-2480n

\*This picture is showing MI-2481n

