



# MI-217nn

## Triplexer 1800/2100/2300-2600



\*This photo is showing MI-21701

### 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 (1800) - Common		
Frequency Band	1710 - 1880 MHz	
Insertion Loss	0.15 dB*, 0.2/0.4 dB max (RX/TX)	
Return Loss	> 21 dB*	
Rejection 1920 - 2170 MHz	50 dB	
Rejection 2300 - 2690 MHz	50 dB	
Continuous Average Power	250 W	
Intermod. (IM3), 2x43 dBm TX Carrier	160 dBc	
Port 2 (2100) - Common		
Frequency Band	1920 - 2170 MHz	
Insertion Loss	0.2 dB*, 0.5 dB max	
Return Loss	> 21 dB*	
Rejection 1710 - 1880 MHz	50 dB	
Rejection 2300 - 2400 MHz	50 dB	
Rejection 2500 - 2690 MHz	50 dB	
Continuous Average Power	250 W	
Intermod. (IM7), 2x43 dBm TX Carrier	160 dBc	
Port 3 (2300-2600) - Common		
Frequency Band	2300 - 2690 MHz	
Insertion Loss	0.2 dB*, 0.3 dB max	
Return Loss	> 21 dB*	
Rejection 1710 - 2170 MHz	50 dB	
Continuous Average Power	250 W	
Intermod. (IM3), 2x43 dBm TX Carrier	160 dBc	
Environmental		
Operating Temperature Range	-40° to +65°C   -40° to +149°F	
Environmental	ETS 300 019	
Ingress Protection	IP67	
Electrical		With Auto-Sense
DC Pass Current	3.0 A continous max.	2 A, drop max 2.4 V
AISG pass	Yes	
AISG RL	>12 dB	
AISG Loss	< 1 dB	
Lightning Protection	10 kA 8/20 µs	
Input Voltage Power	8-31 V max 0.3 W	
Mechanical		Single Mount   Dual Mount
Dimensions (WxHxD)	191x154x51 mm 7.52x6.06x2.00 in	191x154x112 mm 7.52x6.06x4.41 in
Volume	1.5 l   3.3 l	
Weight (gross)	3.1 kg   6.8 lb   6.3 kg   13.9 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		

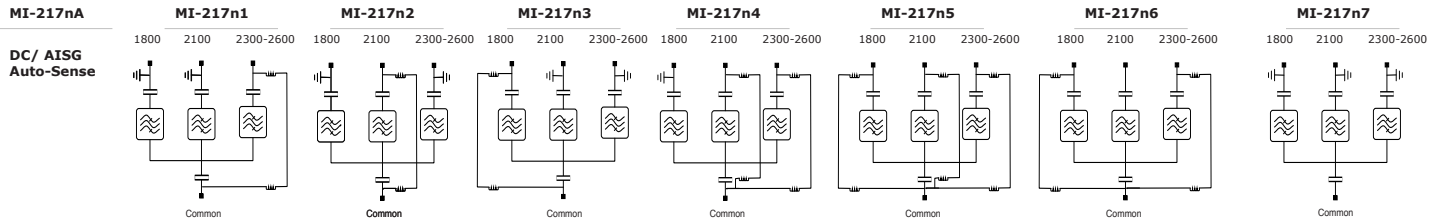
## Selection Guide

Single Mount	Dual Mount	Connector
MI-2170n	MI-2171n	All type 7/16 f connectors
MI-2174n	MI-2175n	Band connectors type 7/16 f, Common type N f
MI-2178n	MI-2179n	All type 4.3-10 connectors f

**Auto-Sense:** MI-217nA

\*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-2171A

