



*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	
Environmental	ETS 300 019	
Ingress Protection	IP67	
Electrical		
DC Pass Current	3.0 A continuous max.	With Auto-Sense 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		
Dimensions (WxHxD)	191 x 154 x 51 mm	
Connectors	See Selection Guide	
Mounting	Hose clamps or wall mount	
Volume	1.5 l	
Weight	2.5 kg	
Colour	NCS 1502-R (light grey)	
* typical		

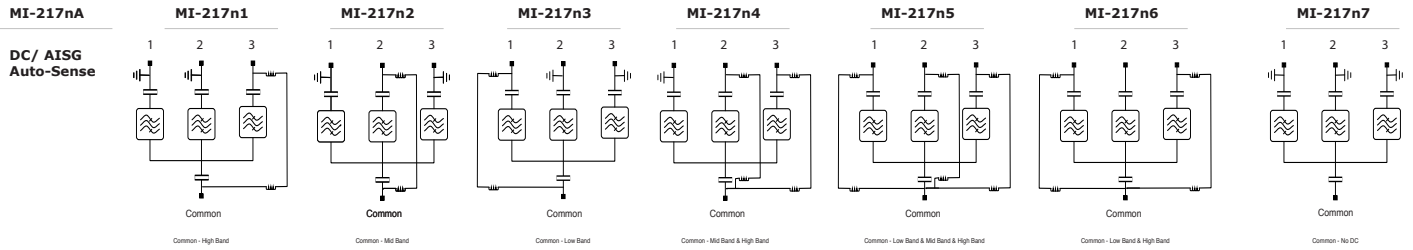
Selection Guide

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

