



# MI-233nn Triplexer 800/900/1800-2100 MHz



This picture is showing MI-23301

## 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*, 0.4 dB max	
Return Loss, normal modes, all ports	> 18 dB	
Rejection 880 - 2690 MHz	> 50 dB (>30 dB 900 RX)	
Continuous Average Power	250 W	
Intermod. (IM3), 2x43 dBm TX Carrier	-116 dBm	
Port 2 (900) - Common		
Frequency Band	880 - 960 MHz	
Insertion Loss	0.2 dB*, 0.4 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	-116 dBm	
Port 3 (1800-2100) - Common		
Frequency Band	1710 - 2170 MHz	
Insertion Loss, 1710 - 2170 MHz	0.2 dB*, 0.4 dB max	
Return Loss	> 18 dB	
Rejection 790 - 960 MHz	50 dB	
Continuous Average Power	250 W	
Intermod. (IM3), 2x43 dBm TX Carrier	-116 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	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		8-30 V max 0.3 W
Mechanical		Single Mount
Dimensions (WxHxD)	220x160x58 mm	220x160x123 mm
	8.66x6.30x2.28 in	8.66x6.30x4.69 in
With Auto-Sense	To be added	220x160x141 mm
		8.66x6.30x5.55 in
Volume	2.0 l	4.2 l
With Auto-Sense		5.0 l
Weight gross/net	3.6 kg/3.0 kg   7.9 lb/6.6 lb	6.0 kg/5.4 kg   13.2 lb/11.9 lb
With Auto-Sense		6.5 kg/5.9 kg   14.3 lb/13.0 lb
Connectors	See Selection Guide	
Mounting	Hose clamps or wall mount Supporter Pole Diameter: 40-140mm	
Colour	NCS 1502-R (light grey)	
Bracket	Included	
Shipping Information		Single Mount
Carton Size	To be added	To be added
Carton Qty/Pallet		40

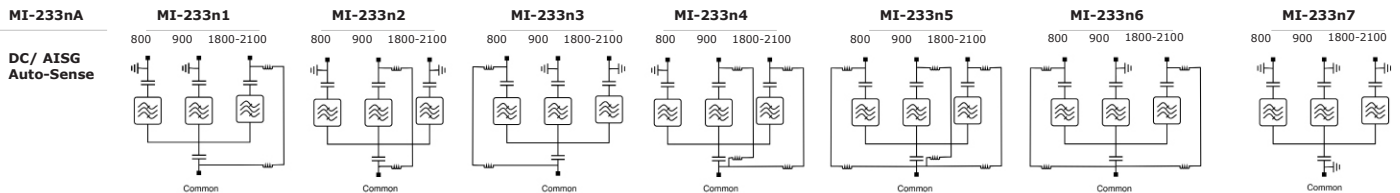
## Selection Guide

		Connector (F)	
		7/16	4.3-10
Mount	Single	MI-2330n	MI-2333n
	Dual	MI-2331n	MI-2334n

**Auto-Sense:** MI-233nA

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

## Block Diagram



## DC/AISG

	800	900	1800-2100
<b>MI-233nA</b>	Auto-Sense		
<b>MI-233n1</b>	Block	Block	Pass
<b>MI-233n2</b>	Block	Pass	Block
<b>MI-233n3</b>	Pass	Block	Block
<b>MI-233n4</b>	Block	Pass	Pass
<b>MI-233n5</b>	Pass	Pass	Pass
<b>MI-233n6</b>	Pass	Block	Pass
<b>MI-233n7</b>	Block	Block	Block

## Auto-Sense Priority

	800	900	1800-2100
<b>MI-233nA.1</b>	FPO	FPO	FPO
<b>MI-233nA.2</b>	XOR	XOR	XOR
<b>MI-233nA.3</b>	3	2	1
<b>MI-233nA.4</b>	1	2	3
<b>MI-233nA.5</b>	3	1	2
<b>MI-233nA.6</b>	2	1	3
<b>MI-233nA.7</b>	1	3	2
<b>MI-233nA.8</b>	2	3	1

## Mechanical Drawing

\*This picture is showing MI-2330n

\*This picture is showing MI-2331n

