



MI-241nn

Diplexer 1800-2100/2300



*This photo is showing MI-24103

The MI-241nn family of cavity diplexer products, include:

- **MI-241nA**, auto-sense
- **MI-241n1**, all ports DC grounded
- **MI-241n2**, diplexer with DC/AISG on Common – High & Low Band
- **MI-241n3**, diplexer with DC/AISG on Common - High Band, Low port DC grounded
- **MI-241n4**, diplexer with DC/AISG on Common - Low Band, High port DC grounded

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

1800/2100 (Low band)		
Frequency Band	1710 - 2170 MHz	
Insertion Loss	0.15 dB *, 0.2 dB max.	
Return Loss	20 dB *, (18 dB min.)	
Rejection 2300 band	50 dB	
Continuous Average Power	250 W	
Intermodulation, 2x43 dBm TX Carrier	-116 dBm	
2300 (High band)		
Frequency Band	2300 - 2400 MHz	
Insertion Loss	0.15 dB *, 0.2 dB max.	
Return Loss	20 dB *, (18 dB min.)	
Rejection 1800/2100 band	50 dB	
Continuous Average Power	250 W	
Intermodulation, 2x43 dBm TX Carrier	-116 dBm	
Environmental		
Operating Temperature Range	-40 to +65°C -40 to +149°F	
Operation	ETS 300 019-1-4 Class 4.1E	
Storage	ETS 300 019-1-1 Class 1.2	
Ingress Protection	IP67	
Electrical		
DC By Pass	3 A	
AISG pass	Yes	
Lightning Protection	3 kA 10/350 µs, 10 kA 8/20 µs	
Mechanical		
	Single Mount	Dual Mount
Dimensions (WxHxD) excl connectors	126x110x52 mm 4.96x4.33x2.05 in	126x110x96 mm 4.96x4.33x3.78 in
With Auto-Sense	To be added	
Volume	0.7 l	1.4 l
With Auto-Sense	To be added	
Weight gross/net	1.8 kg/1.4 kg 3.97 lb/3.09 lb	3.6 kg/3.0 kg 7.94 lb/6.61 lb
With Auto-Sense	To be added	
Connectors	See Selection Guide	
Mounting	Hose clamps or wall mount. Supporter Pole Diameter: 40-140mm	
Colour	NCS 1502-R	
Bracket	Included	
Shipping Information		
	Single Mount	Dual Mount
Carton Size	230x190x105 mm 9.06x7.48x4.13 in	255x185x175 mm 10.05x7.28x6.89 in
Carton Qty/Pallet	180	75
*typical		

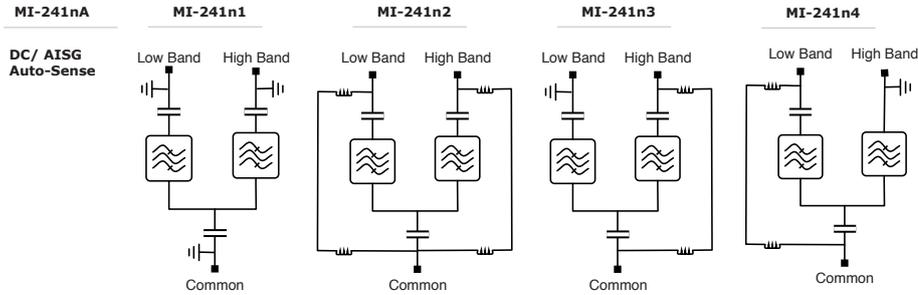
Selection Guide

		Connector (F)	
		7/16	4.3-10
Mount	Single	MI-2410n	MI-2413n
	Dual	MI-2411n	MI-2414n

Auto-Sense: MI-241nA

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

Block Diagram



DC/AISG

	1800-2100	2300
MI-241nA	Auto-Sense	
MI-241n1	Block	Block
MI-241n2	Pass	Pass
MI-241n3	Block	Pass
MI-241n4	Pass	Block

Mechanical Drawing

*This picture is showing MI-24113

