



MI-254nn

Diplexer 1800-2100/2300-2700



*This photo is showing MI-25401

The MI-254nn family of cavity diplexer products include:

- MI-254nA, diplexer with DC/AISG Auto-Sense
- MI-254n1, all ports DC grounded
- MI-254n2, diplexer with DC/AISG on Common - High & Low Band
- MI-254n3, diplexer with DC/AISG on Common - High Band, Low port DC grounded
- MI-254n4, 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

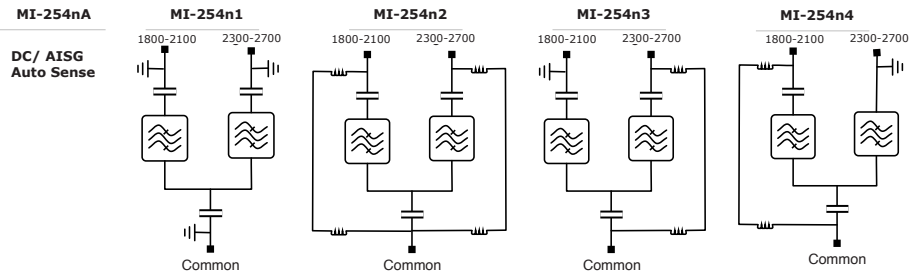
Low band		
Frequency Band	1695 - 2180 MHz	
Insertion Loss	< 0.2 dB*	
Return Loss	> 18 dB	
Rejection high band	50 dB	
Continuous Average Power	250 W	
Intermodulation, 2x43 dBm TX Carrier	-117 dBm	
High band		
Frequency Band	2300 - 2700 MHz	
Insertion Loss	< 0.2 dB*	
Return Loss	> 18 dB	
Rejection low band	50 dB	
Continuous Average Power	250 W	
Intermodulation, 2x43 dBm TX Carrier	-117 dBm	
Environmental		
Operating Temperature Range	-40 to +60°C -40 to +140°F	
Operation	ETS 300 019-1-4 Class 4.1E	
Storage	ETS 300 019-1-1 Class 1.2	
Ingress Protection	IP67	
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		< 1dB
Lightning Protection		10 kA 8/20 µs
Input Voltage Power		8-31 V max 0.3 W
Mechanical		Single Mount
Dimensions (WxHxD)	131x150x49 mm	
	5.16x5.91x1.93 in	
With Auto-Sense	131x150x60 mm	
	5.16x5.91x2.36 in	
Volume	0.96 l	2.26 l
With Auto-Sense	1.18 l	2.65 l
Weight	1.8 kg 3.97 lb	To be added
With Auto-Sense	1.9 kg 4.19 lb	
Connectors	See Selection Guide	
Mounting	Hose clamps or wall mount (Supporter Pole Diameter: 40-140mm)	
Colour	NCS 1502-R	
Bracket	Included	
* Typical		
- All values are subject to change without notice		

Selection Guide

Single Mount	Dual Mount	Connector
MI-2540n	MI-2541n	All type 7/16 f connectors
MI-2544n	MI-2545n	Band connectors type 7/16 f, Common type N f
MI-2548n	MI-2549n	All type 4.3/10 connectors f

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

Block Diagram



DC/AISG

	1800-2100	2300-2700
MI-254nA	Auto-Sense	
MI-254n1	Block	Block
MI-254n2	Pass	Pass
MI-254n3	Block	Pass
MI-254n4	Pass	Block

Mechanical Drawing

