



# MI-553nn

## 8:4 Diplexer 1800/2100



The MI-553nn family of cavity diplexer products include:

- **MI-553n1**, diplexer with all ports DC grounded
- **MI-553n2**, diplexer with DC/AISG on Common – High & Low Band
- **MI-553n3**, diplexer with DC/AISG on Common - High Band, Low port DC grounded
- **MI-553n4**, 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

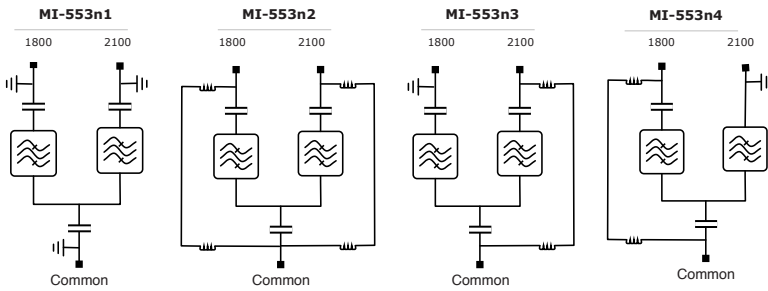
## Specifications

Low band	
Frequency Band	1710 - 1880 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	1920 - 2170 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	
DC By Pass	3 A
AISG pass	Yes
Lightning Protection	10 kA 8/20 µs
Mechanical	
Dimensions (WxHxD)	252x138x89 mm   9.92x5.43x3.50 in
Volume	3.1 l
Weight	TBD kg   lb
Connectors	See Selection Guide
Mounting	Hose clamps or wall mount. Supporter Pole Diameter: 40-140mm
Colour	NCS 1502-R
Bracket	Included
* Typical	

## Selection Guide

Connector (F)	
7/16	4.3-10
MI-5531n	MI-5534n

### Block Diagram



### DC/AISG

	1800	2100
<b>MI-553n1</b>	Block	Block
<b>MI-553n2</b>	Pass	Pass
<b>MI-553n3</b>	Block	Pass
<b>MI-553n4</b>	Pass	Block

### Mechanical Drawing

\*This picture is showing MI-5534n

