



# MI-555nn Diplexer 600/700 upper

The MI-555nn family of cavity diplexer products include:

- **MI-555n1**, diplexer with all ports DC grounded
- **MI-555n2**, diplexer with DC/AISG on Common – High & Low Band
- **MI-555n3**, diplexer with DC/AISG on Common – High Band, Low port DC grounded
- **MI-555n4**, diplexer with DC/AISG on Common – Low Band, High port DC grounded
- **MI-555nA**, diplexer with DC/AISG Auto-Sense

## 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

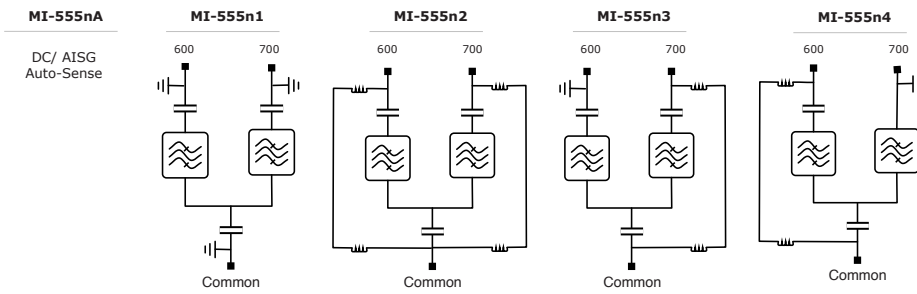
**Reduces the cost**  
of network expansion

**Minimizes**  
site acquisition issues

## Specifications

600		
Frequency Band	617 - 698 MHz	
Insertion Loss	<0.25 dB	
Return Loss	>20 dB *, >18 dB min	
Rejection 746 - 798 MHz	>50 dB	
Continuous Average Power	250 W	
Intermodulation, 2x43 dBm TX Carrier	-117 dBm	
700		
Frequency Band	746 - 798 MHz	
Insertion Loss	<0.3 dB	
Return Loss	>20 dB *, >18 dB min	
Rejection 617 - 698 MHz	>50 dB	
Continuous Average Power	250 W	
Intermodulation, 2x43 dBm TX Carrier	-117 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		With Auto-Sense
DC By Pass	3 A	2A, drop max 2.4V
AISG pass	Yes	
AISG RL		>12dB
AISG Loss		< 1 dB
Lightning Protection	5 kA 8/20 µs	10 kA 8/20 µs
Input Voltage Power		8-30 V max 0.3 W
Mechanical		8:4 version
Dimensions (WxHxD)	4:2 version	300x160x73 mm
		11.81x6.30x2.87 in
With Auto-Sense		300x160x73 mm
		11.81x6.30x2.87 in
Volume		3.5 l
	With Auto-Sense	3.5 l
Weight		3.7 kg   8.16 lb
	With Auto-Sense	3.7 kg   8.16 lb
Connectors	4.3-10 f	
Mounting	Hose clamps or wall mount (Supporter Pole Diameter: 40-140mm)	
Colour	NCS 1502-R	
Bracket	Included	
Versions		
4:2 Diplexer (4 band 2 common)	MI-5553n	
8:4 Diplexer (8 band 4 common)	MI-5554n	
* typical		

### Block Diagram



### DC/AISG

	600	700
<b>MI-555nA</b>	Auto-Sense	
<b>MI-555n1</b>	Block	Block
<b>MI-555n2</b>	Pass	Pass
<b>MI-555n3</b>	Block	Pass
<b>MI-555n4</b>	Pass	Block

### Mechanical Drawing

The picture is showing MI-555n4

