



MI-546nn

Diplexer 1800/2100 MHz

The MI-546nn family of cavity diplexer products include:

- **MI-546nA**, diplexer with DC/AISG Auto-Sense
- **MI-546n1**, diplexer with all ports DC grounded
- **MI-546n2**, diplexer with DC/AISG on Common – High & Low Band
- **MI-546n3**, diplexer with DC/AISG on Common - High Band, Low port DC grounded
- **MI-546n4**, diplexer with DC/AISG on Common - Low Band, High port DC grounded



This picture is showing MI-546n

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

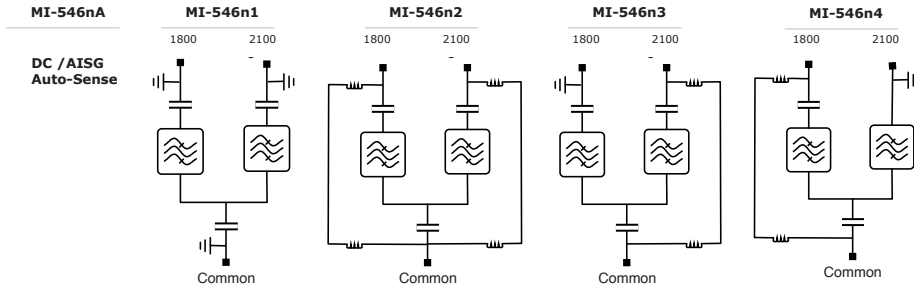
1800		
Frequency Band	1710 - 1880 MHz	
Insertion Loss, 1710 - 1785 MHz	0.15 dB *, 0.2 dB max.	
Insertion Loss, 1805 - 1880 MHz	0.15 dB *, 0.35 dB max.	
Return Loss	20 dB *, (18 dB max.)	
Rejection 1920 - 2170 MHz	50 dB	
Continuous Average Power	250 W	
Intermodulation, 2x43 dBm TX Carrier	-117 dBm	
2100		
Frequency Band	1920 - 2170 MHz	
Insertion Loss, 1920 - 1980 MHz	0.2 dB *, 0.45 dB max.	
Insertion Loss, 2110 - 2170MHz	0.15 dB *, 0.2 dB max.	
Return Loss	20 dB *, (18 dB max.)	
Rejection 1710 - 1880 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		
DC By Pass	3 A	
AISG pass	Yes	
Mechanical		
	Single Mount	Dual Mount
Dimensions (WxHxD)	135x138x48.5 mm 5.31x5.43x1.91 in	135x138x89 mm 5.31x5.43x3.50 in
With Auto-Sense	135x138x60 mm 5.31x5.43x2.36 in	135x138x118 mm 5.31x5.43x4.64 in
Volume	0.9 l	1.7 l
With Auto-Sense	1.1 l	2.2 l
Weight	1.8 kg 3.97 lb	3.5 kg 7.72 lb
With Auto-Sense	2.1 kg 4.6 lb	4.0 kg 8.82 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
Mount	Single	MI-5460n	MI-5463n
	Dual	MI-5461n	MI-5464n

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

Block Diagram



DC/AISG

	1800	2100
MI-546nA	Auto-Sense	
MI-546n1	Block	Block
MI-546n2	Pass	Pass
MI-546n3	Block	Pass
MI-546n4	Pass	Block

Auto-Sense Priority

	1800	2100
MI-546nA.1	FPO	FPO
MI-546nA.2	XOR	XOR
MI-546nA.3	2	1
MI-546nA.4	1	2

Mechanical Drawing

*This picture is showing MI-5460n

*This picture is showing MI-5461n

