

MASSTM 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

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



Specifications

1000		
Frequency Band Insertion Loss, 1710 - 1785 MHz Insertion Loss, 1805 - 1880 MHz Return Loss Rejection 1920 - 2170 MHz	1710 - 1880 MHz 0.15 dB *, 0.2 dB max. 0.15 dB *, 0.35 dB max. 20 dB *, (18 dB min.) 50 dB	
Continuous Average Power	250 W	
Intermodulation, 2x43 dBm TX Carrier	-117 dBm	
2100		
Frequency Band Insertion Loss, 1920 - 1980 MHz Insertion Loss, 2110 - 2170MHz Return Loss Rejection 1710 - 1880 MHz Continuous Average Power	1920 - 2170 MHz 0.2 dB *, 0.45 dB max. 0.15 dB *, 0.2 dB max. 20 dB *, (18 dB min.) 50 dB 250 W	
Intermodulation, 2x43 dBm TX Carrier	-117 dBm	
Environmental		
Operating Temperature Range Operation	-40 to +65°C -40 to +14 ETS 300 019-1-4 Class 4.1E	9°F
Storage	ETS 300 019-1-1 Class 1.2	
	IP67	
Electrical	2.4	
DC By Pass	3 A	
AISG pass	Yes	1.0
Mechanical	2:1	4:2
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 With Auto-Sense	0.9 1.1	1.7 l 2.2 l
Weight With Auto-Sense	1.8 kg 3.97 lb 2.1 kg 4.6 lb	3.5 kg 7.72 lb 4.0 kg 8.82 lb
Connectors	See Selection Guide	
Mounting	Hose clamps or wall mount. Su	pporter Pole Diameter: 40-140mm
Colour	NCS 1502-R	
Bracket	Included	
Shipping information	2:1	4:2
	280x195x120 mm	280x195x165 mm
* 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.



MI-546nn Diplexer 1800/2100 MHz

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









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