



MI-512nn Triplexer 700-900/1800/2100



This picture is showing MI-5123n

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

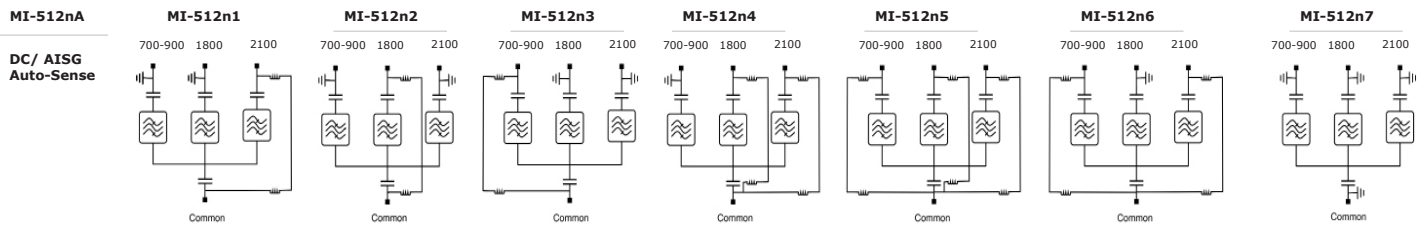
Port 1 (700-800-900) - Common		
Frequency Band	698 - 960 MHz	
Insertion Loss	0.1 dB typ, 0.2 dB max	
Return Loss	> 18 dB	
Rejection 1710 - 1880 MHz	50 dB	
Rejection 1920 - 2170 MHz	50 dB	
Continuous Average Power	250 W	
Intermod. (IM3), 2x43 dBm TX Carrier	-117 dBm	
Port 2 (1800) - Common		
Frequency Band	1710 - 1880 MHz	
Insertion Loss	0.2 dB typ, 0.45 dB max	
Return Loss	> 18 dB	
Rejection 698 - 960 MHz	50 dB	
Rejection 1920 - 2170 MHz	50 dB	
Continuous Average Power	250 W	
Intermod. (IM3), 2x43 dBm TX Carrier	-117 dBm	
Port 3 (2100) - Common		
Frequency Band	1920 - 2170 MHz	
Insertion Loss	0.2 dB typ, 0.5 dB max	
Return Loss	> 18 dB	
Rejection 698 - 1880 MHz	50 dB	
Continuous Average Power	250 W	
Intermod. (IM7), 2x43 dBm TX Carrier	-125 dBm*	
Environmental		
Operating Temperature Range	-40° to +65°C	
Environmental	ETS 300 019-1-4 Class 4.1E	
Safety	IEC/EN 62368-1	
Ingress Protection	IP67	
Electrical		With Auto-Sense
Lightning Protection	5 kA 8/20 µs	5 kA 8/20 µs
DC Pass Current	3.0 A continuous max.	2 A, drop max 2.4V
AISG pass	Yes	
AISG RL		> 12 dB
AISG Loss		< 1 dB
MTBF	1 Mh min.	1 Mh min
Input Voltage Power		8-30 V Max 0.3W
Mechanical		
	Single Mount	Dual Mount
Dimensions (WxHxD)	190x160x51 mm 7.48x6.30x2.00 in	190x160x94 mm 7.48x6.30x3.70 in
With Auto-Sense	190x160x66 mm 7.48x6.30x2.60 in	190x160x123 mm 7.48x6.30x4.84 in
Volume	1.6 l	2.9 l
With Auto-Sense	2.0 l	3.7 l
Connectors	See Selection Guide	
Mounting	Hose clamps or wall mount (Supporter Pole Diameter: 40-140mm)	
Weight	2.8 kg 6.17 lb	5.3 kg 11.68 lb
Colour	NCS 1502-R (light grey)	
Bracket	Included	
* typical		

Selection Guide

		Connector (F)	
		7/16	4.3-10
Mount	Single	MI-5120n	MI-5123n
	Dual	MI-5121n	MI-5124n

Auto-Sense: MI-512nA

Block Diagram



DC/AISG

	700-900	1800	2100
MI-512nA	Auto-Sense		
MI-512n1	Block	Block	Pass
MI-512n2	Block	Pass	Block
MI-512n3	Pass	Block	Block
MI-512n4	Block	Pass	Pass
MI-512n5	Pass	Pass	Pass
MI-512n6	Pass	Block	Pass
MI-512n7	Block	Block	Block

Auto-Sense Priority

	700-900	1800	2100
MI-512nA.1	FPO	FPO	FPO
MI-512nA.2	XOR	XOR	XOR
MI-512nA.3	3	2	1
MI-512nA.4	1	2	3
MI-512nA.5	3	1	2
MI-512nA.6	2	1	3
MI-512nA.7	1	3	2
MI-512nA.8	2	3	1

Mechanical Drawing

