



MI-539nn Triplexer 1695-1780,2110-2200/1850-1995/ 2300-2690 MHz



This picture is showing MI-53943

MASS™

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 (AWS) - Common		
Frequency Band	1695 - 1780, 2110-2200 MHz	
Insertion Loss	< 0.3 dB*	
Return Loss	20 dB*, 18 dB max	
Rejection PCS	> 50 dB	
Rejection 2300 - 2690 MHz	> 50 dB	
Continuous Average Power / Peak Power	250 W / 2000 W	
Port 2 (PCS) - Common		
Frequency Band	1850 - 1995 MHz	
Insertion Loss	< 0.3 dB*	
Return Loss	20 dB*, 18 dB max	
Rejection AWS	> 50 dB	
Rejection 2300 - 2690 MHz	> 50 dB	
Continuous Average Power / Peak Power	250 W / 2000 W	
Intermod. (IM3), 2x43 dBm TX Carrier	165 dBc*	
Port 3 (2300 - 2690) - Common		
Frequency Band	2300 - 2690 MHz	
Insertion Loss	< 0.3 dB*	
Return Loss	20 dB*, 18 dB max	
Rejection AWS	> 50 dB	
Rejection PCS	> 50 dB	
Continuous Average Power / Peak Power	250 W / 2000 W	
Intermod. (IM3), 2x43 dBm TX Carrier	165 dBc*	
Environmental		
Operating Temperature Range	-40° to +65°C -40° to +149°F	
Environmental	ETS 300 019-1-4 Class 4.1E	
Ingress Protection	IP68	
Electrical		
Lightning Protection	5 kA 8/20 µs	With Auto-Sense 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
Safety	IEC/EN 62368-1	
Mechanical		
	Single Mount	Dual Mount
Dimensions (WxHxD)	220x140x50 mm 9.45x5.51x2.0 in	220x140x106 mm 9.45x5.51x4.2 in
With Auto-Sense	220x140x62 mm 9.45x5.51x2.4 in	220x140x118 mm 9.45x5.51x4.6 in
Volume	1.5 l	3.3 l
With Auto-Sense	1.9 l	3.6 l
Weight (including brackets)	2.7 kg 5.95 lb	4.9 kg 10.8 lb
With Auto-Sense	2.8 kg 6.17 lb	5.0 kg 11.0 lb
Connectors	See Selection Guide	
Mounting	Hose clamps or wall mount (Supporter Pole Diameter: 40-140mm)	
Colour	NCS 1502-R (light grey)	
Bracket	Included	
Wind load	189 N @70 m/s	
*typical		



MI-539nn

Triplexer

1695-1780, 2110-2200/1850-1995/
2300-2690 MHz

Selection Guide

		Connector (F)	
		7/16	4.3-10
Mount	Single	MI-5390n	MI-5393n
	Dual	MI-5391n	MI-5394n

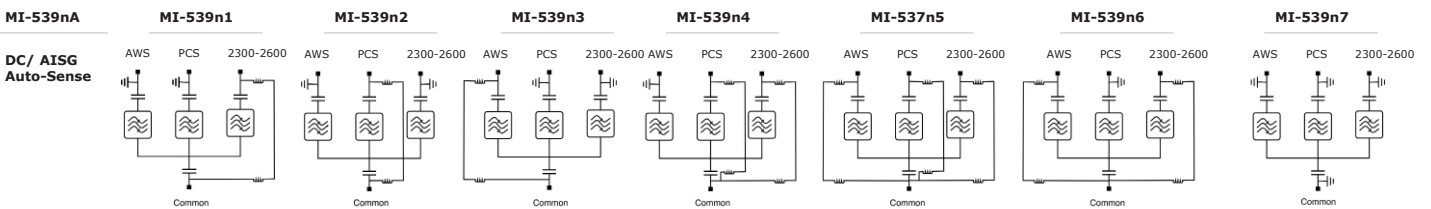
Auto-Sense: MI-539nA

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

DC/AISG

	1695-1780, 2110-2200	1850-1995	2300-2600
MI-539nA	Auto-Sense		
MI-539n1	Block	Block	Pass
MI-539n2	Block	Pass	Block
MI-539n3	Pass	Block	Block
MI-539n4	Block	Pass	Pass
MI-539n5	Pass	Pass	Pass
MI-539n6	Pass	Block	Pass
MI-539n7	Block	Block	Block

Block Diagram



Mechanical Drawing

This picture is showing MI-5394n

