



MI-539nn

Triplexer

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



This picture is showing MI-53931

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 | To be added |
| With Auto-Sense | 220x140x62 mm 9.45x5.51x2.4 in | |
| Volume | 1.5 l | |
| With Auto-Sense | 1.9 l | |
| Weight (including brackets) | 2.7 kg 5.95 lb | |
| With Auto-Sense | 2.8 kg 6.17 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 |

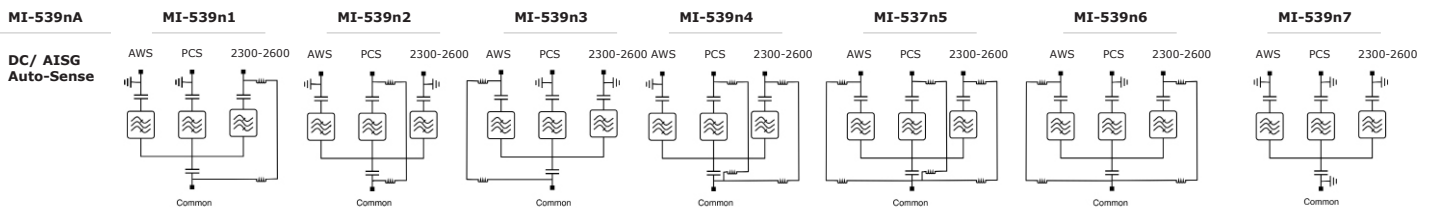
Auto-Sense: MI-539nA

*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-5390A

