



MI-248nn

Quadruplexer

800/900/1800/2100

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 (800) - Common	
Frequency Band	790 - 862 MHz
Insertion Loss	0.2 dB typ, 0.5 dB max
Return Loss	> 18 dB
Rejection 880 - 2170 MHz	> 50 dB (> 30 900 RX)
Continuous Average Power	250 W
Intermod. (IM3), 2x43 dBm TX Carrier	-117 dBm
Port 2 (900) - Common	
Frequency Band	880 - 960 MHz
Insertion Loss	0.2 dB typ, 0.5 dB max
Return Loss	> 18 dB
Rejection 790 - 862 MHz	> 50 dB TX >30 dB RX
Rejection 1710 - 2170 MHz	50 dB
Continuous Average Power	250 W
Intermod. (IM3), 2x43 dBm TX Carrier	-117 dBm
Port 3 (1800) - Common	
Frequency Band	1710 - 1880 MHz
Insertion Loss	0.2 dB typ, 0.4 max
Return Loss	> 18 dB
Rejection 790 - 960 MHz & 1920- 2170 MHz	50 dB
Continuous Average Power	250 W
Intermod. (IM3), 2x43 dBm TX Carrier	-117 dBm
Port 4 (2100) - Common	
Frequency Band	1920 - 2170 MHz
Insertion Loss	0.2 dB typ, 0.5 max
Return Loss	> 18 dB
Rejection 790 - 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
Ingress Protection	IP68
Electrical	
Lightning Protection	IEC61000-4.5
DC Pass Current	3.0 A continuous max.
AISG pass	Yes
MTBF	1 Mh min.
Safety	EN60950
Mechanical	
Dimensions (WxHxD)	264 x 160 x 58 mm
Connectors	See Selection Guide
Mounting	Hose clamps or wall mount
Volume	3.2 l
Weight	4.5 kg
Colour	NCS 1502-R (light grey)
Bracket	Included
	*typical

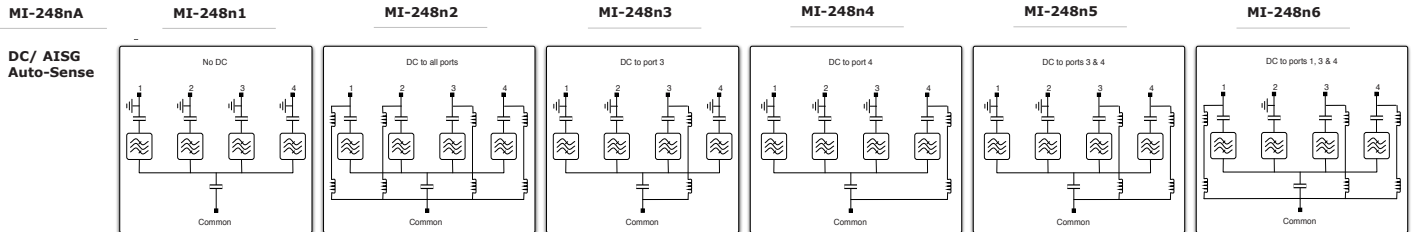
Selection Guide

		Connector (F)	
		7/16	4.3-10
Mount	Single	MI-2480n	MI-2483n
	Dual	MI-2481n	MI-2484n

Auto-Sense: MI-248nA

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

Block Diagram



Mechanical Drawing

*This picture is showing MI-2480n

