



# MI-54131

## 8:4 Diplexer AWS+WCS/PCS



### 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

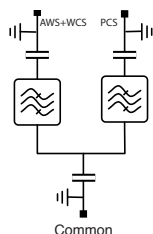
site acquisition issues

## Specifications

AWS+WCS	
Frequency Band	1695 - 1780 MHz, 2110 - 2360 MHz
Insertion Loss	< 0.2 dB typ < 0.3 dB max
Return Loss	> 20 dB
Rejection PCS	> 40 dB
Continuous Average Power	100 W
Intermodulation, 2x43 dBm TX Carrier	min 160 dBc (-117 dBm)
PCS	
Frequency Band	1850 - 1995 MHz
Insertion Loss	< 0.25 dB typ < 0.38 dB max
Return Loss	> 20 dB
Rejection AWS	> 40 dB
Continuous Average Power	100 W
Intermodulation, 2x43 dBm TX Carrier	min 160 dBc (-117 dBm)
Environmental	
Operating Temperature Range	-40 to +65°C   -40 to +149°F
Operation	ETS 300 019-1-4 Class 4.1E
Storage	ETS 300 019-1-1 Class 1.2
Ingress Protection	IP67
Electrical	
Lightning Protection	5 kA 8/20 μs
Mechanical	
Dimensions (WxHxD) excl connectors	210x107x76 mm   8.3 x 4.2 x 3.0 in
Connectors	4.3-10 female
Mounting (Supporter Pole Diameter: 40-140mm)	Hose clamps or wall mount
Volume	1.7 l
Weight	3.35 kg   7.39 lb
Color	NCS 1502-R
Bracket	Included

\* All values in spec are subject to change without notice

### Block Diagram



### DC/AISG

	AWS+WCS	PCS
MI-54131	Block	Block

### Mechanical Drawing

