



MI-54111

4:2 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

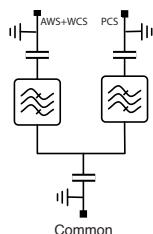
site acquisition issues

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	210x107x42 mm 8.3x4.2x1.6 in
Connectors	4.3-10 female
Mounting (Supporter Pole Diameter: 40-140mm)	Hose clamps or wall mount
Volume	0.94 l
Weight	2.15 kg 4.74 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-54111	Block	Block

Mechanical Drawing

