



MI-20801

Same Band Combiner

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

UMTS2100 Same Band Combiner, AISG and DC Transparency	
Frequency Band	1920 - 2170 MHz
Intermodulation, 2x43 dBm TX Carrier BTS port	-160 dBc
Isolation	TX to RX >40 dB, RX to RX >18 dB
Uplink (RX) Path	
Frequency Band	1920 - 1980 MHz
Insertion Loss	< 4 dB, including splitter loss
Return Loss	20 dB typ.*
Downlink (TX) Path	
Frequency Band	2110 - 2170 MHz
Insertion Loss	0.4 dB max.
Return Loss	20 dB typ.*
Average Power Handling	150 W
Power Supply and Alarm	
AISG Signal Attenuation	< 1 dB @ 2.176 MHz
Voltage Drop	1 V max. @ 3A
Supply Voltage Handling	0 - 32VDC
Continuous Current Handling	0 - 32 VDC, 3A
Environmental	
Operating Temperature Range °C	-20 to +65°C
Operation	ETS 300 019-1-4
Storage	ETS 300 019-1-1
Ingress Protection	IP65
Miscellaneous	
EMC	EN 301 489-8
Safety standards	EN 60950
MTBF	1.5 M hours
Mechanical	
Dimensions (WxHxD)	TBD
Connectors	7/16 (F)
Volume	TBD
Weight	TBD
Colour	NCS 1502-R

Block Diagram

