MI-20802
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
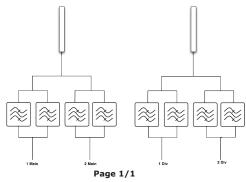more traffic & higher ARPU

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	1Main to 2Div & 2Main to 1Div >30 dB
Uplink (RX) Path (1)	
Frequency Band	1950 - 1960 MHz
Insertion Loss	1.5 dB *
Return Loss	20 dB *
Downlink (TX) Path (1)	
Frequency Band	2140 - 2150 MHz
Insertion Loss	0.5 dB *
Return Loss	20 dB typ.*
Average Power Handling	150 W
Uplink (RX) Path (2)	
Frequency Band	1970 - 1980 MHz
Insertion Loss	1.5 dB *
Return Loss	20 dB *
Downlink (TX) Path (2)	
Frequency Band	2160 - 2170 MHz
Insertion Loss	0.5 dB *
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. @ 10 - 30 VDC
Supply Voltage Handling	0 - 32VDC
Continous Current Handling	5A, 0 - 32 VDC
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

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