



MI-12702 TMA Twin 1800/2100 UMTS



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

Downlink (TX) Path		GSM 1800	UMTS 2100
Frequency Band		1805 - 1880 MHz	2110 - 2170 MHz
Insertion Loss		0.5 dB*	0.3 dB*
Continuous Average Power		200 W (53 dBm)	200 W (53 dBm)
Intermodulation, 2x43 dBm TX Carrier BTS port		-116 dBm in RX band, ANT port	-125 dBm in RX band, ANT port
Uplink (RX) Path			
Frequency Band		1710 - 1785 MHz	1920 - 1980 MHz
Gain		12 dB nominal	12 dB nominal
Noise Figure		1.5 dB*	1.4 dB*
Insertion Loss, Bypass mode		2.0 dB*	2.0 dB*
Output IP3		25 dBm*	25 dBm*
Power Supply and Alarm			
		Current Alarm Mode	AISG - Mode
DC		9 - 15 V	24 V DC nominal (9-31 V DC)
Power		<165 mA @12V	< 4 W
Alarm		Factory config. max 320 mA	3GPP/AISG 2.0 or AISG 1.1
Environmental			
Operating Temperature Range		-40 to +65°C	
Operation		ETS 300 019-1-4	
Storage		ETS 300 019-1-1	
Ingress Protection		IP67	
Miscellaneous			
EMC		EN 301 489-8	
Safety standards		EN 60950	
MTBF		1 Mh/TMA min.	
Mechanical			
Dimensions (WxHxD)		168X274X120 mm	
Connectors		ANT 7/116 (F) BTS 7/16 (F) AISG Female 8 pin circular	
Mounting		Hose clamps, arbitrary orientation	
Volume		5.5 l	
Weight		8.0 kg	
Colour		NCS 1502-R	
		* typical	

