

# Digital Band Selective Repeater

## GSM 900 MHz



### PRODUCT FEATURES

- Total 4 pass band segments with independent ON/OFF for maximum flexibility
- 2 W/5 W/10 W/20 W total output power
- Integrated GSM wireless modem for remote configuration, monitoring and control
- Internal backup battery keeps the alarm unit running for up to two hours after power failure
- Compatible to our generic OMT and OMC platform
- Designed for all weather outdoor installation – waterproof, damp-proof and omni-sealed (IP65).

TECHNICAL SPECIFICATIONS		RP09-BSxx-CAxx			
ELECTRICAL		2W	5W	10 W	20 W
FREQUENCY RANGE, UPLINK		890 – 915			
FREQUENCY RANGE, DOWNLINK		935 – 960			
OPERATING BANDWIDTH PER SUB-BAND		0.2-25 adjustable			
SUB-BANDS		4			
TOTAL OUTPUT POWER, UPLINK		30 dBm			
TOTAL OUTPUT POWER, DOWNLINK		33±1.5	37±1.5	40±1.5	43±1.5
MAXIMUM SYSTEM GAIN		90 dB			
GAIN ADJUSTMENT RANGE		0 - 30 dB			
PASS BAND RIPPLE, P-P		≤ 5 dB			
UPLINK NOISE FIGURE		≤ 5 dB			
OUT OF BAND GAIN*	Offset ≥ 400KHz	≤ 50 dB			
	Offset ≥ 600KHz	≤ 40 dB			
	Offset ≥ 1MHz	≤ 35 dB			
	Offset ≥ 5MHz	≤ 25 dB			
SPURIOUS AND INTERMODULATION**	9kHz-1GHz	-36 dBm			
	9kHz-1GHz	-30 dBm			
OUT OF BAND SPURIOUS EMISSION	9 KHz to 1 GHz	≤ 36 dBm			
	1 GHz to 12.75 GHz	≤ 30 dBm			
INPUT VSWR		≤ 1.5			
SYSTEM GROUP DELAY		≤ 6.5 μsec			
ABSOLUTE MAXIMUM RF INPUT POWER		10 dBm			
IMPEDANCE		50 Ohm			

POWER, MECHANICAL & ENVIRONMENTAL	
DIMENSIONS, (H x W x D)	430 x 300 x 164 mm
WEIGHT (APPROX.)	18 kg
POWER SUPPLY	100 – 240 / 47 – 63 Hz
POWER CONSUMPTION	150 160 170 180
POWER UP WAITING TIME	180 sec
MCU BATTERY BACKUP TIME	2 hour
ENCLOSURE COOLING	Convection
RF CONNECTORS	N-Female
OPERATING TEMPERATURE	-33 to +55°C
OPERATING HUMIDITY	≤ 95%
ENVIRONMENTAL CLASS	IP65
MTBF	≥ 50,000

\*: Test at 65dB system gain

\*\*: Intermodulation test at 23dBm output \_Downlink and at 15dBm output \_Uplink.