

WCDMA Digital Channel Selective Repeater

2100 MHz



PRODUCT FEATURES

- Utilizing the latest Pre-distortion MCPA technologies to deliver 20 W Downlink Power
- Output in a compact chassis (1.8 kg)
- Automatic Digital gain control and Antenna Feedback Cancellation (AFC) feature that can reduce the isolation requirement up to 30 dB
- Support up to 4 WCDMA channels in 25 MHz instantaneous bandwidth
- With built-in wireless modem, supports remote alarm monitoring and configuration based on the unified OMT / OMC platform
- IP65 Chassis, designed for all outdoor application - waterproof, damp-proof and Omni-sealed

TECHNICAL SPECIFICATIONS	RP21-CS43-CA00
ELECTRICAL	
FREQUENCY RANGE, UPLINK	1920 – 1980
FREQUENCY RANGE, DOWNLINK	2110 – 2170
INSTANTANEOUS BANDWIDTH	25 MHz
NUMBER OF CHANNELS	4
TOTAL OUTPUT POWER, UPLINK	23 dBm
TOTAL OUTPUT POWER, DOWNLINK	43 dBm
MAXIMUM SYSTEM GAIN	105
GAIN ADJUSTMENT RANGE	0 - 30 dB
ANTENNA FEEDBACK CANCELLATION	30 dB
SYSTEM NOISE FIGURE @ MAXIMUM GAIN	≤ 5 dB
SYSTEM GROUP DELAY	≤ 11 μsec
SPECTRUM EMISSION MASK	
ACRR	Compliance with 3GPP TS 25.106 and 3GPP TS 25.143
EVM	
PCDE	
INTERMODULATION	
ABSOLUTE MAXIMUM RF INPUT POWER	-10 dBm
INPUT VSWR	≤ 1.5
IMPEDANCE	50 Ohm

POWER, MECHANICAL & ENVIRONMENTAL	
DIMENSIONS, (H x W x D)	430 x 300 x 164 mm
WEIGHT (APPROX.)	1.8 kg
POWER SUPPLY (OPTIONAL)	100 – 240 / 47 – 63 Hz (VAC) -48 DC
POWER CONSUMPTION (APPROX.)	180
POWER UP WAITING TIME (APPROX.)	60 sec
MCU BATTERY BACKUP TIME (APPROX.)	2 hr
ENCLOSURE COOLING	Convection
RF CONNECTORS	N-Female
OPERATING TEMPERATURE	-33 to +55°C
OPERATING HUMIDITY	≤ 95%
ENVIRONMENTAL CLASS	IP65
MTBF	≥ 50,000