

## CR1800 Series DCS1800 Band Selective Repeater

This high gain and high power frequency band selective repeater is designed for GSM1800 system. Band selection is suitable for sector coverage extension in rural application. SAW filter and Feed Forward technologies are used. Performance is low Noise, low Spurious, high Linearity, low Interference and high Reliability.

Built-in RS232 control port enables convenience field adjustment of repeater output power, gain and operation bandwidth. Optional remote control and monitoring system. (Via fixed line or wireless modem)

Packed in IP55 case. Optional outdoor IP66 version.



Part No.	CR1800-37A-80 CR1800-37A-80WP	CR1800-40A-80 CR1800-40A-80WP
Frequency Range	UL: 1710~1785MHz DL: 1805~1880MHz	UL: 1710~1785MHz DL: 1805~1880MHz
Gain	UL: 90dB DL: 100dB	UL: 90dB DL: 100dB
Pass Band Ripple	≤ 2dB	≤ 2dB
Gain Adjustment Range	≥ 40dB	≥ 40dB
Gain Adjustment Step	2dB	2dB
Gain Adjustment Precision	0~20dB ≤ ± 1dB 21~44dB ≤ ± 1.5dB	0~20dB ≤ ± 1dB 21~44dB ≤ ± 1.5dB
Frequency Error	in band ≤ ± 0.05ppm	in band ≤ ± 0.05ppm
Output Power (ALC Trip Point)	UL: 10dBm ~ 37dBm DL: 37dBm	UL: 10dBm ~ 40dBm DL: 40dBm
Out Band Rejection @ 1MHz from Pass Band Edges	≥ 55dB	≥ 55dB
Monitoring Port	- 30dB	- 30dB
Spurious Emissions	≤ - 36dBm@9KHz~1GHz ≤ - 30dBm@1~12.75GHz	≤ - 36dBm@9KHz~1GHz ≤ - 30dBm@1~12.75GHz
3-rd Interception Point	UL: ≥ 55dBm DL: ≥ 57dBm	UL: ≥ 55dBm DL: ≥ 57dBm
Noise Figure (Gain Max.)	≤ 4.5dB	≤ 4.5dB

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GSM900, CDMA and GSM1800(DCS1800) Repeater

Part No.	CR1800-37A-80 CR1800-37A-80WP	CR1800-40A-80 CR1800-40A-80WP
Time Delay	≤ 5μs	≤ 5μs
VSWR	≤ 1.4 : 1	≤ 1.4 : 1
Impedance	50 Ω	50 Ω
Connector	N-F	N-F
Operating Temperature	- 30~60°C	- 30~60°C
Water Proof Grade	IP55 IP66 for WP version	IP55 IP66 for WP version
Power Supply	220V AC	220V AC
Dimensions	590X490X205mm 690X450X148mm WP	590X490X205mm 690X450X148mm WP
Weight	24kg 25kg WP	24kg 25kg WP
Power Consumption	120 Watt	220 Watt

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