

CR900 Series GSM Band Selective Repeater

This high gain and high power frequency band selective repeater is designed for GSM900 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.	CR900-30A-90 CR900-30A-90WP	CR900-30A-90A CR900-30A-90AWP	CR900-30A-90B CR900-30A-90BWP
Frequency Range	UL: 890~915MHz DL: 935~960MHz	UL: 890~909MHz DL: 935~954MHz	UL:909~915MHz DL:954~960MHz
Gain	UL: 90dB DL: 100dB	UL: 90dB DL:100dB	UL:90dB DL:100dB
Pass Band Ripple	≤ 2dB	≤ 2dB	≤ 2dB
Gain Adjustment Range	≥ 40dB	≥ 40dB	≥ 40dB
Gain Adjustment Step	2dB	2dB	2dB
Gain Adjustment Precision	0~20dB ≤ ± 1dB 21~44dB ≤ ± 1.5dB	0~20dB ≤ ± 1dB 21~44dB ≤ ± 1.5dB	0~20dB ≤ ± 1dB 21~44dB ≤ ± 1.5dB
Frequency Error	in band: ≤ ± 0.05ppm	in band: ≤ ± 0.05ppm	in band: ≤ ± 0.05ppm
Output Power (ALC Trip Point)	UL: 10dBm~30dBm DL: 30dBm	UL:10dBm~30dBm DL: 30dBm	UL:10dBm~30dBm DL: 30dBm
Out Band Rejection @1MHz from Pass Band Edges	≥ 55dB	≥ 55dB	≥ 55dB
Monitoring Port	- 30dB	- 30dB	- 30dB
3-rd IMP	UL: - 65dBc DL: - 55dBc	UL: - 65dBc DL: - 55dBc	UL: - 65dBc DL: - 55dBc
Spurious Emissions	≤ -36dBm@9KHz~1GHz ≤ -30dBm@1~12.75GHz	≤ -36dBm@9KHz~1GHz ≤ -30dBm@1~12.75GHz	≤ -36dBm@9KHz~1GHz ≤ -30dBm@1~12.75GHz
3-rd Interception Point	UL: ≥ 50dBm DL: ≥ 57dBm	UL: ≥ 50dBm DL: ≥ 57dBm	UL: ≥ 50dBm DL: ≥ 57dBm
Noise Figure(Gain Max.)	≤ 4.5dB	≤ 4.5dB	≤ 4.5dB

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Time Delay	≤ 5μs	≤ 5μs	≤ 5μs
VSWR	≤ 1.4 : 1	≤ 1.4 : 1	≤ 1.4 : 1
Impedance	50 Ω	50 Ω	50 Ω
Connector	N-F	N-F	N-F
Operating Temperature	- 30~60°C	- 30~60°C	- 30~60°C
Water Proof Grade	IP55	IP55	IP55
	IP66 for WP version	IP66 for WP version	IP66 for WP version
Power Supply	220V AC	220V AC	220V AC
Dimensions	590X490X205mm	590X490X205mm	590X490X205mm
	690X450X148mm WP	690X450X148mm WP	690X450X148mm WP
Weight	24kg	24kg	24kg
	25kg WP	25kg WP	25kg WP
Power Consumption	120 Watt	120 Watt	120 Watt

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GSM900, CDMA and GSM1800(DCS1800) Repeater