

## CR800 Series CDMA Band Selective Repeater

This high gain and high power frequency band selective repeater is designed for IS-95A CDMA 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 working bandwidth. Optional remote control and monitoring system. (Via fixed line or wireless modem)

Packed in IP55 case. Optional outdoor IP66 version.



Part No.	CR800-33A-90 CR800-33A-90WP	
Frequency Range	UL: 825~835MHz	DL: 870~880MHz
Gain max	UL: 90± 3dB	DL: 90± 3dB
Pass Band Ripple	≤ 3dB	
Gain Adjustment Range	31dB	
Gain Adjustment Step	1dB	
Gain Adjustment Precision	0~20dB ≤ ± 1dB	21~31dB ≤ ± 1.5dB
Bandwidth	3dB 10MHz	
	55dB 12MHz	
Frequency Error	in band: ≤ ± 0.05ppm	
Output Power (ALC Trip Point)	UL: 17(0/- 2)dBm	DL: 33(0/- 2)dBm
Monitoring Port	- 30dB	
Out Band Rejection	per channel UL: ≤ - 38dB (@ CDMA band edges ≥ 1.98MHz)	
	DL: ≤ - 44dB (@ CDMA band edges ≥ 1.98MHz)	
	per band UL: ≤ - 40dB (@ Operation band edges ≥ 2.5MHz)	
	DL: ≤ - 60dB (@ Operation band edges ≥ 10MHz)	
Spurious Emissions	per carrier (out) UL: ≤ - 59dBc (Δf ≥ 1.98MHz, RBW=30KHz)	
	≤ - 42dBc (Δf ≥ 900MHz, RBW=30KHz)	
	DL: ≤ - 65dBc (Δf ≥ 1.98MHz, RBW=30KHz)	
	≤ - 45dBc (Δf ≥ 750MHz, RBW=30KHz)	
	in band: ≤ - 22dBm (RBW=30KHz)	

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Part No.	CR800-33A-90 CR800-33A-90WP
	out band:
	@ operation band edges 2.5MHz (out band)
	≤ - 36dBm@9KHz~150KHz, RBW=1KHz
	≤ - 36dBm@150KHz~30KHz, RBW=10KHz
	≤ - 36dBm@30MHz~1GHz, RBW=100KHz(885~915MHz and 930~960MHz exclusive)
	≤ - 30dBm@1GHz~12.75GHz, RBW=1MHz(1.8~1.92GHz and 3.4~3.53GHz exclusive)
	≤ - 47dBm@885KHz~915MHz, RBW=100KHz
	≤ - 47dBm@930MHz~960MHz, RBW=100KHz
	≤ - 47dBm@1.8~1.92GHz, RBW=100KHz
	≤ - 47dBm@3.4~3.53MHz, RBW=100KHz
Noise Figure (@ Max Gain)	≤ 4.5dB
Time Delay	≤ 1.5μs
Impedance	50 Ω
VSWR	≤ 1.4 : 1
Waveform Coefficient	UL: ρ >0.95      DL: ρ >0.96
Connector	N-F
Operating Temperature	- 30~60°C
Water Proof Grade	IP55 IP66 for WP version
Power Supply	220V AC
Dimensions	500 X 420 X 200mm
	550 X 470 X 250mm WP
Weight	21kg 16.5kg WP
Power Consumption	75Watt

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