

CR800 Series CDMA Solar Cellular Repeater

This channel selective repeater is designed for IS-95A CDMA system. It is powered by solar cells, Suitable for rural, farm, lake and highway coverage application where AC power supply is not available.

SAW filter and high efficiency amplifier 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 channel number. Optional remote control and monitoring system. (Via fixed line or wireless modem)

Come with solar cells and Ni-Cad maintenance free battery. Packed in IP66 case.



Part No.	CR800-30A-90SE	
Frequency Range	UL: 825~835MHz	DL: 870~880MHz
Gain	UL: 90dB	DL: 100dB
Pass Band Ripple	≤ 3dB	
Gain Adjustment Range	44dB	
Gain Adjustment Step	2dB	
Gain Adjustment Precision	0 ~ 20dB ≤ ± 1 dB	21 ~ 44dB ≤ ± 1.5 dB
Frequency Error	in band: ≤ ± 0.05ppm	
Output Power (ALC Trip Point)	UL: 10~30dBm	DL: 30dBm
Monitoring Port	- 30dB	
3dB Bandwidth	10MHz	
55dB Bandwidth	12MHz	
Out Band Rejection	per channel UL: ≤ - 45dB (@ CDMA band edges ≥ 1.98MHz)	
	DL: ≤ - 45dB (@ CDMA band edges ≥ 1.98MHz)	
	per band UL: ≤ - 45dB (@ operation band edges ≥ 2.5MHz)	
	DL: ≤ - 60dB (@ operation band edges ≥ 5MHz)	
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)	
	out band: @ operation band edges 2.5MHz (out band)	

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GSM900, CDMA and GSM1800(DCS1800) Repeater

Part No.	CR800-30A-90SE	
	$\leq -36\text{dBm}@9\text{KHz}\sim 150\text{KHz}$, RBW=1KHz	
	$\leq -36\text{dBm}@150\text{KHz}\sim 30\text{KHz}$, RBW=10KHz	
	$\leq -36\text{dBm}@30\text{MHz}\sim 1\text{GHz}$, RBW=100KHz(885-915MHz and 930-960MHz exclusive)	
	$\leq -30\text{dBm}@1\text{GHz}\sim 12.75\text{GHz}$, RBW=1MHz(1.8-1.92GHz and 3.4-3.53GHz exclusive)	
	$\leq -67\text{dBm}@890\text{MHz}\sim 915\text{MHz}$, RBW=100KHz	
	$\leq -67\text{dBm}@930\text{MHz}\sim 960\text{MHz}$, RBW=100KHz	
	$\leq -67\text{dBm}@1.8\sim 1.92\text{GHz}$, RBW=100KHz	
	$\leq -67\text{dBm}@3.4\sim 3.53\text{MHz}$, RBW=100KHz	
Noise Figure	$\leq 4.5\text{dB}$ Gain (max)	
Time Delay	$\leq 5\mu\text{s}$	
Impedance	50 Ω	
VSWR	$\leq 1.4 : 1$	
Waveform Coefficient	UL: $\rho > 0.96$	DL: $\rho > 0.95$
Connector	N-F	
Operating Temperature	$-30\sim 60^\circ\text{C}$	
Power Supply	55W X 2 solar battery +300AH accumulators	
Dimensions	590 X 490 X 205mm	
Weight	24 kg	

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