

## C13L Series Single Band Repeater



### Product features

- LCD display of operating figures.
- Real time isolation check and alarm.
- Self oscillation elimination, auto degrading of output power in case of insufficient isolation detected.
- Auto turn-off in case of excessive self oscillation or over input.
- Idle turn-off, auto turn-off of uplink while no active users in the coverage , lowering interference to BTS.
- MGC, Manual control of output gain with 1dB step in the range of 31dB.
- ALC, auto control of output power for stable coverage.
- Linkage between uplink and downlink gain, keeping uplink and downlink balanced.
- Compact size, low power consumption and easy to install.
- MTBF: up to 100,000 hours.

### Model list:

Model	Uplink Frequency Range	Downlink Frequency Range
C13L-B1	1920 ~ 1980 MHz	2110 ~ 2170 MHz
C13L-B2	1850 ~ 1910 MHz	1930 ~ 1990 MHz
C13L-B3	1710 ~ 1785 MHz	1805 ~ 1880 MHz
C13L-B4	1710 ~ 1755 MHz	2110 ~ 2155 MHz
C13L-B5	824 ~ 849 MHz	869 ~ 894 MHz
C13L-B7	2500 ~ 2570 MHz	2620 ~ 2690 MHz
C13L-B8	880 ~ 915 MHz	925 ~ 960 MHz
C13L-B20	832 ~ 862 MHz	791 ~ 821 MHz
C13L-B28	703 ~ 748 MHz	758 ~ 803 MHz

**Technical specification :**

Item		Uplink	Downlink
Output power		17±2 dBm	13±2 dBm
Gain		65±2 dB	65±2 dB
Ripple in band		≤6~15 dB	≤6~15 dB
VSWR		≤2.5	≤2.5
Max. input power without damage		-10 dBm	-10 dBm
Spurious emission	9KHz~1GHz	≤-36 dBm	≤-36 dBm
	1GHz~12.75GHz	≤-30 dBm	≤-30 dBm
Gain Attentute Range		1~31 dB,step of 1 dB	
ALC control Range		≥ 25 dB	≥ 25 dB
LCD Indication	Band	Band name & frequency	
	Gain	Uplink & downlink gain	
	Pout	Downlink output power	
	Work	Device work indication	
	ISO	Isolation status indication	
Mute when there is no user:		Yes	
Real-time Self Oscillation Elimination Function		Yes	
Over input turn-off:		Yes	
EVM		Fully comply with 3GPP	
PCDE		Fully comply with 3GPP	
ACRR		Fully comply with 3GPP	
Noise figure		≤6 dB	≤6 dB
Group delay		≤1.5 μs	≤1.5 μs
Power supply		DC: 5 V / 1 A	
RF connector		N-Female	
Environment conditions		IP40	
Humidity		< 90%	
Operating temperature		-10℃ ~ +55℃	
Size		130*90*19.5mm	
Weight		<0.4kg	