Amplitee[®] All interconnection

10W Single Band Repeater C40J Series



Product Features:

- OLED display for an easy glance of operating status, working frequency, gain and output power etc.;
- ♦ ISO function, easy to set up for engineering, quickly installed and debugged;
- Able to enhance signal coverage, reduce cell phone radiation and extend cell phone battery working time;
- Digital ALC technology, auto limit the output power to ensure stable signal coverage;
- Uplink squelch function;
- Automatic link balancing function;
- Manual gain control, with 1dB step to attenuate the gain among the range of 31dB
- Coverage in 6000 square meters by no barrier;
- MTBF can be up to 100000 hours.

Model List:

MODEL	Frequency Range of Up link	Frequency Range of Down link
C40J-B5	824 ~ 849 MHz	869 ~ 894 MHz
C40J-B8	890 ~ 915 MHz	935 ~ 960 MHz
C40J-B3	1710 ~ 1785 MHz	1805 ~ 1880 MHz
C40J-B1	1920 ~ 1980 MHz	2110 ~ 2170 MHz
C40J-B7	2500 ~ 2570 MHz	2620 ~ 2690 MHz
C40J-B20	830 ~ 862 MHz	791 ~ 821 MHz
C40J-B28	708 ~ 748 MHz	763 ~ 803 MHz

Add: 4 Floor, 4 Building, No.60 of the Langbao West Road, Chancheng District

FoshanCity,Guangdong Province,China.528000 Tel: (86)757-83308393/83308238/83328273 Website: www.amplitec.cn Email :

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Professional mobile communication seamless coverage solution provider

Specification:

Output Power 24±2 dBm 40±2 dBm Gain 85±2 dB 90±2 dB Passband ripple 6~15 dB 6~15 dB VSWR ≤2 ≤2 Max. Input Power without Damage -10 dBm -10 dBm EVM Meet 3GPP standards PCDE Meet 3GPP standards ACRR Meet 3GPP standards Spurious 9KHz~1GHz ≤36 dBm ≤-36 dBm Emission 1GHz-12.75GHz ≤-30 dBm ≤-30 dBm Gain adjustment range ATT step of 1 dB in 31 dB ALC control range ≥30dB Power Indicator Power on Green Green Power off No light No range Active > ALC Alarm LED Not Active Green Indication Lower 65~80 dB Orange Indication Lower 65~80 dB - Red Man-machine dialogue function VES Self-scillation elimination Yes Self-scillation elimination Yes Self-scillation elimination Yes	Item		Up link	Down link	
Passband ripple 6~15 dB 6~15 dB VSWR ≤2 ≤2 Max. Input Power without Damage -10 dBm -10 dBm EVM Meet 3GPP standards PCDE Meet 3GPP standards ACRR Meet 3GPP standards Spurious 9KHz~1GHz <-36 dBm	Output Power		24±2 dBm	40±2 dBm	
VSWR s2 s2 Max. Input Power without Damage -10 dBm -10 dBm EVM Meet 3GPP standards PCDE Meet 3GPP standards ACRR Meet 3GPP standards Spurious 9KHz~1GHz <-36 dBm	Gain		85±2 dB	90±2 dB	
Max. Input Power without Damage-10 dBm-10 dBmEVMMeet 3GPP standardsPCDEMeet 3GPP standardsACRRMeet 3GPP standardsSpurious9KHz~1GHzEmission1GHz~12.75GHZGain adjustment raruerATT step of 1 dB in 31 dBALC control range230 dBmPower IndicatorPower onGreenSeenPower IndicatorNo tactiveALC Alarm LEDNot ActiveActive 5~25dB-Active 5~25dB-Active 5-Active 5-CorrangeIndicationIndicationLower 65~80 dBLower 65~80 dB-Lower 560 dB-RedMan-machine dialuerUSBIde shutdown functionYesSelf-oscillation eliminationYesNoise Figure@ max≤6 dBSelf-oscillation eliminationYesNoise Figure@ max≤6 dBTime Delay≤1.5 µsPower SupplyAC: 220VRF ConnectorN-FemaleProtection GradeIP65Operating Humidity< 90%	Passband ripple		6~15 dB	6~15 dB	
EVM Meet 3GPP standards PCDE Meet 3GPP standards ACRR Meet 3GPP standards Spurious 9KHz~1GHz ≤-36 dBm ≤-36 dBm Emission 1GHz~12.75GHz ≤-30 dBm ≤-30 dBm Gain adjustment rarge ATT step of 1 dB in 31 dB ALC control range ≥30dB Power Indicator Power on Green 230dB Power off No light No light ALC Alarm LED Active 5~25dB – Green Indication Active 5~25dB – Orange Indication Normal – Green IsO alarm Lower 65~80 dB – Orange Indication Lower 65~80 dB – Red Man-machine dialogue function Ves Self-oscillation elimitation Yes Self-oscillation elimitation Yes Self-oscillation elimitation Yes Self-oscillation elimitation Yes Self dB Self dB Noise Figure@ max_gain Sel dB Sel dB Sel dB <	VSWR		≤2	≤2	
PCDE Meet 3GPP standards ACRR Meet 3GPP standards Spurious 9KHz~1GHz ≤-36 dBm ≤-36 dBm Emission 1GHz~12.75GHz ≤-30 dBm ≤-30 dBm Gain adjustment rarge ATT step of 1 dB in 31 dB ALC control range ≥30dB Power Indicator Power on Green Power off No light ALC Alarm LED Not Active — Green Active 5~25dB — Orange Indication Active 5~25dB — Orange Indication Normal — Green Lower 65~80 dB — Orange Indication Indication Lower ≤60 dB — Red Man-machine dialogue function OLED UI USB Idle shutdown function Yes Self-oscillation elimination Yes Acto shut-off Functions Yes Sed dB Noise Figure@ max.gain ≤6 dB ≤6 dB ≤6 dB Sed dB Time Delay ¥l.5 µs \$1.5 µs Power Supply ACt 220V<	Max. Input Power without Damage		-10 dBm	-10 dBm	
ACRR Meet 3GPP standards Spurious 9KHz~1GHz ≤-36 dBm ≤-36 dBm Emission 1GHz~12.75GHz ≤-30 dBm ≤-30 dBm Gain adjustment range ATT step of 1 dB in 31 dB ALC control range ≥30dB ALC control range Power on Green Spurious Power Indicator Power off No light ALC Alarm LED Not Active – Green Active 5~25dB – Orange Active >25dB Indication Active 5~25dB – Orange Indication Lower 65~80 dB – Orange Indication Lower 60 dB – Red Man-machine dialogue function OLED UI Monitoring method USB Idle shutdown function Yes Self-oscillation elimination Yes Noise Figure@ max. gain ≤6 dB ≤6 dB ≤1.5 µs Power Supply AC: 220V RF connector N-Female Protection Grade IP65 Ops% Ops% Operating Humidity <td colspan="2">EVM</td> <td colspan="2">Meet 3GPP standards</td>	EVM		Meet 3GPP standards		
Spurious 9KHz~1GHz \$-36 dBm \$-36 dBm Emission 1GHz~12.75GHz \$-30 dBm \$-30 dBm Gain adjustment rarge ATT step of 1 dB in 31 dB ALC control range \$20dB Power Indicator Power on Green Power off No light ALC Alarm LED Not Active — Green Active 5-25dB — Orange Indication Normal — Green ISO alarm Lower 65~80 dB — Orange Indication Lower 65~80 dB — Orange Man-machine dialogue function OLED UI USB Idle shutdown function Yes Self-oscillation elimination Yes Self-oscillation elimination Yes Noise Figure@ max.gain \$6 dB \$6 dB \$6 dB Time Delay \$1.5 µs \$1.5 µs \$1.5 µs Power Supply AC: 220V RF connector N-Female Protection Grade IP65 Op% Op% Operating Humidity	PCDE		Meet 3GPP standards		
Emission 1GHz~12.75GHz ≤-30 dBm ≤-30 dBm Gain adjustment range ATT step of 1 dB in 31 dB ALC control range ≥30dB Power Indicator Power on Green Power off No light ALC Alarm LED Not Active — ALC Alarm LED Active 5~25dB — Orange Indication Active 5~25dB — Red Normal — Green Red IsO alarm Indication Normal — Orange Indication Lower 65~80 dB — Red Morange Man-machine dialogue function OLED UI Monitoring method USB USB Idle shutdown functions Yes Self-oscillation elimination Yes Self-oscillation elimination Yes Noise Figure@ max.gain ≤6 dB ≤6 dB ≤6 dB <6 dB	ACRR		Meet 3GPP standards		
ATT step of 1 dB in 31 dBALC control range≥30dBPower IndicatorPower offGreenPower offNo lightALC Alarm LED IndicationNot Active—Active 5~25dB—OrangeActive 25dB—RedNormal—GreenLower 65~80 dB—OrangeIndicationLower 66~80 dB—OrangeIndicationUser 560 dB—RedMan-machine dialourUSBUSBIdle shutdown functionYesSelf-oscillation eliminationYesSelf-oscillation eliminationSelf dB<6 dBTime DelaySelf dBPower SupplyRe ConnectorN-FemaleProtection GradeIP65Operating TemperatureOperating Temperature <td>Spurious</td> <td>9KHz~1GHz</td> <td>≤-36 dBm</td> <td>≤-36 dBm</td>	Spurious	9KHz~1GHz	≤-36 dBm	≤-36 dBm	
ALC control range ≥30dB Power Indicator Power off No light Power off No light Mot active — ALC Alarm LED Not Active — Orange Indication Active >25dB — Orange Indication Normal — Green ISO alarm Lower 65~80 dB — Orange Indication Lower 65~80 dB — Red Man-machine dialogue function OLED UI Monitoring method USB Idle shutdown function Yes Self-oscillation elimination Yes Self-oscillation elimination Yes Self-oscillation elimination Yes Noise Figure@ max.gain ≤6 dB ≤6 dB ≤6 dB Time Delay ≤1.5 µs ≤1.5 µs ≤1.5 µs Power Supply AC: 220V RF Connector N-Female Protection Grade IP65 <90%	Emission	1GHz~12.75GHz	≤-30 dBm	≤-30 dBm	
Power Indicator Power on ff Green ALC Alarm LED Not Active — Green ALC Alarm LED Active 5~25dB — Orange Indication Active 25dB — Red IsO alarm Lower 65~80 dB — Orange Indication Lower 65~80 dB — Red Man-machine dialogue function OLED UI Monitoring method USB Idle shutdown function Yes Self-oscillation elimination Yes Self-oscillation elimination Yes Self-oscillation elimination Yes Noise Figure@ max.gain ≤6 dB ≤6 dB ≤6 dB Time Delay Yes \$1.5 µs \$1.5 µs Power Supply AC: 220V RF Connector N-Female Protection Grade IP65 IP65 IP65 Operating Humidity <90%	Gain adjustment range		ATT step of 1 dB in 31 dB		
Power IndicatorPower offNo lightALC Alarm LEDNot Active—GreenALC Alarm LEDActive 5~25dB—OrangeIndicationActive >25dB—RedNormal—GreenISO alarmLower 65~80 dB—OrangeIndicationLower 660 dB—RedMan-machine dialour = functionOLED UIUSBIdle shutdown functionYesSelf-oscillation elimitorYesSelf-oscillation elimitorYesYesAuto shut-off FunctiorsYesSelf-oscillation elimitorYesNoise Figure@ max. gain≤6 dB≤6 dBTime Delay≤1.5 µs≤1.5 µsPower SupplyAC: 220VRF ConnectorN-FemaleProtection GradeIP6590%Operating Humidity<90%	ALC control range		≥30dB		
Power offNo lightALC Alarm LED IndicationNot Active—GreenActive 5~25dB—RedActive >25dB—RedISO alarmLower 65~80 dB—OrangeIndicationLower 65~80 dB—RedMan-machine dialogue functionOLED UIMonitoring methodUSBIdle shutdown functionYesSelf-oscillation eliminationYesSelf-oscillation eliminationYesAuto shut-off FunctionsYesNoise Figure@ max_gain≤6 dBSelf-oscillation Grade≤1.5 µsPower SupplyAC: 220VRF ConnectorN-FemaleProtection GradeIP65Operating Humidity<90%	Power Indicator	Power on	Green		
$\begin{array}{c c c c c } ALC Alarm LED & Active 5~25dB & - & Orange \\ \hline Active >25dB & - & Red \\ \hline Active >25dB & - & Red \\ \hline Normal & - & Orange \\ \hline Iower 65~80 dB & - & Orange \\ \hline Lower 65~80 dB & - & Red \\ \hline Lower 660 dB & - & Red \\ \hline Man-machine dialoue function & OLED UI \\ \hline Monitoring method & USB \\ \hline Idle shutdown function & Yes \\ \hline Self-oscillation elimination & Yes \\ \hline Auto shut-off Functions & Yes \\ \hline Noise Figure@ max.gain & \leq 6 dB & \leq 6 dB \\ \hline Time Delay & \leq 1.5 \ \mu s & \leq 1.5 \ \mu s \\ \hline Power Supply & AC: 220V \\ \hline RF Connector & N-Female \\ \hline Protection Grade & IP65 \\ \hline Operating Humidity & < 90\% \\ \hline Operating Temperature & -10°C ~ +55°C \\ \hline Dimension (With packaging) & 490*410*190mm \\ \hline \end{array}$		Power off	No light		
Indication Notice 25dB — Red ISO alarm — Green ISO alarm Lower 65~80 dB — Orange Indication Lower 65~80 dB — Red Man-machine dialou Lower ≤60 dB — Red Man-machine dialou USB — Med Monitoring method USB USB		Not Active	—	Green	
NormalRedISO alarm IndicationLower 65~80 dBOrangeIde shutdown functionOLED UIMonitoring methodUSBIdle shutdown functionYesIdle shutdown functionYesSelf-oscillation eliminationYesYesAuto shut-off FunctionsYesIdle shutdownNoise Figure@ max. gain≤6 dB≤6 dBTime Delay≤1.5 µs≤1.5 µsPower SupplyAC: 220VRF ConnectorN-FemaleProtection GradeIP65Operating Humidity<90%	ALC Alarm LED	Active 5~25dB	—	Orange	
$\begin{tabular}{ c c c c } & $Lower 65~80 dB & $-$$ Red \\ \hline Lower $60 dB & $-$ Red \\ \hline Lower $60 dB & $-$ Red \\ \hline Man-machine dialogue function $OLED UI $$$ OLED UI $$$ USB $$$ Idle shutdown function $$ Yes $$$ Self-oscillation elimination $$ Yes $$$$ Self-oscillation elimination $$ Yes $$$$ Self-oscillation elimination $$ Yes $$$$ Noise Figure@ max. gain $$ $6 dB $$$ $$ 6dB $$$$ Noise Figure@ max. gain $$$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$	Indication	Active >25dB	—	Red	
IndicationLower ≤ 60 dB—RedMan-machine dialogue functionOLED UIMonitoring methodUSBIdle shutdown functionYesSelf-oscillation eliminationYesAuto shut-off FunctionsYesNoise Figure@ max. gain≤6 dBTime Delay≤1.5 µsPower SupplyAC: 220VRF ConnectorN-FemaleProtection GradeIP65Operating Humidity<90%		Normal	—	Green	
Lower soo db		Lower 65~80 dB	—	Orange	
Monitoring methodUSBIdle shutdown functionYesSelf-oscillation eliminationYesAuto shut-off FunctionsYesNoise Figure@ max. gain≤6 dB≤6 dB≤6 dBTime Delay≤1.5 µsPower SupplyAC: 220VRF ConnectorN-FemaleProtection GradeIP65Operating Humidity< 90%		Lower ≤60 dB	—	Red	
Idle shutdown functionYesSelf-oscillation eliminationYesAuto shut-off FunctionsYesNoise Figure@ max. gain≤6 dB≤6 dB≤6 dBTime Delay≤1.5 µsPower SupplyAC: 220VRF ConnectorN-FemaleProtection GradeIP65Operating Humidity< 90%	Man-machine dialogue function		OLED UI		
Self-oscillation eliminationYesAuto shut-off FunctionsYesNoise Figure@ max. gain≤6 dBTime Delay≤1.5 μsPower SupplyAC: 220VRF ConnectorN-FemaleProtection GradeIP65Operating Humidity< 90%	Monitoring method		USB		
Auto shut-off FunctionsYesNoise Figure@ max. gain $\leq 6 dB$ $\leq 6 dB$ Time Delay $\leq 1.5 \ \mu s$ $\leq 1.5 \ \mu s$ Power SupplyAC: 220V $AC: 220V$ RF ConnectorN-FemaleProtection GradeIP65Operating Humidity $< 90\%$ Operating Temperature $-10^{\circ}C \sim +55^{\circ}C$ Dimension (With packaging) 490^*410^*190 mm	Idle shutdown function		Yes		
Noise Figure@ max. gain $\leq 6 dB$ $\leq 6 dB$ Time Delay $\leq 1.5 \ \mu s$ $\leq 1.5 \ \mu s$ Power SupplyAC: 220VRF ConnectorN-FemaleProtection GradeIP65Operating Humidity $< 90\%$ Operating Temperature $-10^{\circ}C \sim +55^{\circ}C$ Dimension (With packaging) 490^*410^*190 mm	Self-oscillation elimination		Yes		
Time Delay $\leq 1.5 \ \mu s$ $\leq 1.5 \ \mu s$ Power SupplyAC: 220VRF ConnectorN-FemaleProtection GradeIP65Operating Humidity $< 90\%$ Operating Temperature $-10^{\circ}C \rightarrow +55^{\circ}C$ Dimension (With packaging) 490^*410^*190 mm	Auto shut-off Functions		Yes		
Power SupplyAC: 220VRF ConnectorN-FemaleProtection GradeIP65Operating Humidity< 90%	Noise Figure@ max. gain		≤6 dB	≤6 dB	
RF ConnectorN-FemaleProtection GradeIP65Operating Humidity< 90%	Time Delay		≤1.5 µs	≤1.5 µs	
Protection GradeIP65Operating Humidity< 90%	Power Supply		AC: 220V		
Operating Humidity< 90%Operating Temperature-10°C ~ +55°CDimension (With packaging)490*410*190mm	RF Connector		N-Female		
Operating Temperature $-10^{\circ}C \sim +55^{\circ}C$ Dimension (With packaging)490*410*190mm	Protection Grade		IP65		
Dimension (With packaging) 490*410*190mm	Operating Humidity		< 90%		
	Operating Temperature		-10℃ ~ +55℃		
Weight (With packaging) <25kg	Dimension (With packaging)		490*410*190mm		
	Weight (With packaging)		<25kg		



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