G-Wave Carrier Repeaters extend the coverage area of radio communications in buildings and RF shielded environments. Units feature extremely low noise figure and a wide dynamic range. This type of system is the most economical solution for several story buildings with weak signal strength outside the covered structure. Local Visual Alarms are included. Additional optional features available are outdoor version and 90dB Gain.

Model: BDA-XXX-25/33-80-C

1.Electrical Characteristics

Item	Uplink	Downlink	Note
Frequency Range	See Table	See Table	Sample Bands shown refer to table below
Gain	80 dB (Min.)	80 dB (Min.)	
Gain Flatness	±1.5 dB	±1.5 dB	Over Freq. Range
Gain Attenuation Range	0 to 30 dB	0 to 30 dB	in 2 dB steps
Composite Output Power (ALC Set)	+25 dBm	+33 dBm	
3rd Order Intercept Point	+46 dBm	+51 dBm	
Noise Figure	4.5 dB (Typ.)	4.5 dB (Typ.)	@ Maximum Gain
Input / Output VSWR	1.5:1 (Max.)	1.5:1 (Max.)	
Propagation Delay	≤ 0.3 µsec	≤ 0.3 µsec	
ALC Range	>25 dB		
Max RF Input	+10 dBm		
Power Supply Local	110V/0.6 A to 220V/0.3 A (Autoranging, 50 to 60 Hz)		
Input/output Impedance	50 Ω		

2.Mechanical Characteristics

Monitoring Connector	9 Pin Male	Optional
RF IN/OUT Connector	N-Type Female	
Weight	23.3 lb / 10.5 kg (approximate)	
Dimensions	15.3" x 15.4" x 8.0" 388.6 x 391.2 x 203.2 mm	

3. Environment Characteristics

Operating Temperature	-20℃ ~ +50℃	Ambient

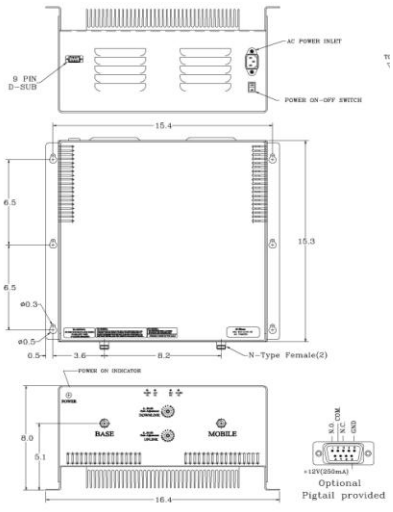
4. 9-PIN Male Pin Description (Optional)

1	N.O	250 mA
2	COM	Dry Contact Common Port
3	N.C.	Alarm Condition
4	N/A	
5	GND	
6	N/A	
7	N/A	
8	N/A	
9	+12V	(250mA)

5. Local LED Indication

Front Panel	UL & L ALC Indication	Red LED "ON" ALC Limited
Front Panel	UL & DL Alarm Indication	Red LED "ON" Alarm State
Front Panel	Power ON	Green LED "ON"

6. Outline Drawing



7. Models

Part #	Description	Frequency Range
BDA-CELLA-25/33-80-AB	Repeater	UL = 869-880 MHz, DL = 824-835 MHz
BDA-CELLB-25/33-80-AB	Repeater	UL = 835-849MHz, DL = 880-894 MHz
BDA-CELLAB-25/33-80-AB	Repeater	UL = 869-894 MHz, DL = 824-849 MHz
BDA-PCSF-25/33-80-AB	Repeater *Also available in individual blocks	UL = 821-824 MHz, DL = 866-869 MHz

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