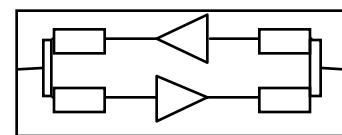


# Band Specific Cellular Repeater



48750 / 48751

- **Band Specific Filtering**
- **1 Watt Composite Power**
- **CDMA, TDMA, AMPs, CDPD**
- **Fast and Easy Set Up**
- **Compact, Low Cost and Reliable**



The 48750 is a Cellular Repeater designed to improve "A band or B Band" Cellular service in RF Isolated environments. The unique filtering of the 48750 allows full use of the desired cellular band including prime spectrum while completely attenuating the competitive spectrum. The 1 Watt of composite power will easily provide coverage of over 500,000 square feet ( $45000\text{ m}^2$ ). Approved for AMPs, CDMA, TDMA and CDPD modulations. No computer is required to set up the 48750. The diagnostics communicator provides a quick visual of the units status and provides DC test point for fast and easy to set up and service.

## SPECIFICATIONS

	<u>Downlink</u>	<u>Uplink</u>
48750 Frequency, MHz	869-880 / 890-891.5	824-835 / 845-846.5
48751 Frequency, MHz	880-890 / 891.5-894	835-845 / 846.5-849
Gain, no Attenuation, Typ.	79 dB	79 dB
Gain Flatness, Typ.	$\pm 1.0\text{ dB}$	$\pm 1.0\text{ dB}$
Manual Attenuator Range	15 dB	15 dB
Output Limiter Range, automatic*	20 dB	20 dB
Noise Figure, Typ.	9.0 dB	9.0 dB
Composite Power**	+30 dBm	+30 dBm
CDMA, TDMA	+27 dBm	+27 dBm
Impedance	50 Ohms	
VSWR, input, both ports		1.5
Propagation Delay, worse case at band edge		< 3.0 microsecond
Power		120 VAC @ 1.6 A
Operating Temperature, ambient		-30 to +50° C
Connectors, RF		N Female
Size L X W X D, wall mount, 40 lbs		13.5 X 18.0 X 7.3 Inches
Diagnostics:		TTL, Analog Voltages
Power and Fault LEDs plus 15 pin diagnostics port.		
Alarms for each component, overdrive and over temperature		
Output DCV for AGC level and Output detectors, Uplink and Downlink		
Remote Shutdown		

**FCC ID:** IWDBDA48750

**ISTC:** XXXX XXXX

\* AGC circuitry monitors the output power and reduces the gain to prevent overdrive or oscillation.

\*\* BDA output power is limited via internal circuitry to assure that IM levels do not exceed -13 dBm.

## THE TOTAL PACKAGE

RFS can provide all of the components and design assistance to improve Cellular coverage in any installation. Contact our applications engineering team at (800) 659-1880 or visit our web site for complete details on Wireless Distributed Communications Systems and components

Rev 01 8/00

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