

**VHF BI-DIRECTIONAL AMPLIFIER (BDA)**

**UBDA-138225-SERIES**

Comprod’s UBDA138225 is a Unidirectional Class B signal booster. It covers both the 138-174 MHz and 216-222 MHz bands. The amplifier can be used with input / output filters as a Unidirectional Amplifier or combined with input and output duplexers to create a Bi-Directional Amplifier.

Note: The UBDA138225 must have adequate input and output filtering to prevent undesired interference. Only sold as part of a complete BDA system.



Electrical Specifications	Canada	USA
Certification	IC: 7755A-UDA138225	FCC: WDM-BDA138225
Frequency Range, MHz	138-225	150-225
Automatic Level Control (ALC), dB	35	35
Amplifier Maximum Gain, dB	+ 100 Typical	+ 100 Typical
System Nominal Gain at -45 dBm input power	+ 75	+ 75
Input Manual Attenuator Range, dB	0 to 30 in 2 dB steps	0 to 30 in 2 dB steps
Output Level Manual Adjustment range, dB	0 to 15 in 1 dB steps	0 to 15 in 1 dB steps
3rd Order Output Intercept Point, dBm	+48 Typical	+48 Typical
Noise Figure, Typical (without filters), dB	4	4
Limited Output Composite Power, dBm	+31	+31
Nominal Impedance, Ohms	50	50
Input / Output Connectors	N Female	N Female
AC Power Source Input, Volts	100 to 260 50/60Hz	100 to 260 50/60Hz
Optional DC Power Source Voltages, Volts	+24 or +48	+24 or +48
Optional dry contact alarms	Power Failure	Power Failure

Mechanical Specifications	
Dimensions in H, W, D	24 x 20 x 13.5
Temperature Range, °F (°C)	-4 to 131 (-20 to +55)
Weight, lbs (kg)	100 (45)