

# Broadband VHF and UHF Preamplifiers

CMA Series

Reception



## • Features & Benefits

- Low Noise Figure
- Output Test Port for Uninterrupted Service Testing
- High Gain and Input Capability
- Ideal For All BTY Series Broadband Antennas

The CMA Broadband Preamplifier Series includes professional quality, low noise, broadband VHF & UHF preamplifiers. CMA's are available in four different models for amplification of low band VHF, high band VHF, broadband VHF, or broadband UHF. The CMA Series are housed in a die-cast case. Input, output, and test ports are 75 Ohm, type "F" female connectors. The CMA's mount on a 1.5 inch O.D. (max) antenna mast with the supplied mounting hardware. Blonder Tongue PS Series -21 VDC power supplies(available separately) are used to power the preamplifiers through the downloads.

## • Specifications

Electrical	CMA-LB	CMA-HB	CMA-BB	CMA-Uc
Frequency Range (MHz):	54-88 (2-6)	174-216 (7-13)	54-216 (2-13)	470-806 (14-69)
Noise Figure (dB):	5.0	5.0	5.0	3.0
Gain (dB):	26	26	26	20
Bandpass Flatness (dB):	±0.5	±0.5	±0.7	±1.5
Min. Recommended Input Level (dBmV):	-7	-7	-7	-9
Input Capability (dBmV):	+28	+26	+25	+26
Impedance - All Ports (Ω):	75	75	75	75
Input Return Loss (dB):	10	12	11	-
Output Return Loss (dB):	11	9	8	-
<b>General</b>				
Power Requirements:	-21 VDC @ 50 mA	-21 VDC @ 50 mA	-21 VDC @ 50 mA	-21 VDC @ 29 mA
Recommended BT Power Supply:	PS-1536	PS-1536	PS-1536	PS-1526
Temperature Range (°C):	-40 to +60	-40 to +60	-40 to +60	-40 to +60
<b>Mechanical</b>				
Maximum Mast Diameter O.D. (in.):	1.5	1.5	1.5	1.5
Dimensions				
W x H x D in:	5.13 x 5.25 x 3.50	5.13 x 5.25 x 3.50	5.13 x 5.25 x 3.50	5.00 x 3.88 x 3.00
W x H x D mm:	130 x 133 x 89	130 x 133 x 89	130 x 133 x 89	127 x 99 x 76
Weight				
lbs.:	1.50	1.50	1.50	1.31
mm:	0.68	0.68	0.68	0.60
<b>Connectors (Common to All)</b>				
Input:		"F" Female		
Output:		"F" Female		
Test:		"F" Female		

## • Ordering Information

Model	Stock No.	Description
CMA-BB	4448 BB	Preamplifier Broadband VHF, 54-216 MHz
CMA-HB	4448 HB	Preamplifier Broadband High Band VHF, 174-216 MHz
CMA-LB	4448 LB	Preamplifier Broadband Low Band VHF, 54-88MHz
CMA-UC	1264	Preamplifier Broadband UHF, 470-806 MHz
PS-1526	1526	Power Supply Single Output, -21 VDC @ 48 mA
PS-1536	1536	Power Supply Dual Output, -21 VDC @ 100 mA