

Single Channel VHF and UHF Preamplifiers

CMA-b & SCMA-Ub Series



The CMA-b and SCMA-Ub Single Channel Preamplifier Series are professional quality, very low noise, single channel VHF/FM and UHF preamplifiers. The CMA-b is optimized for a single VHF channel or FM Band (88-108 MHz), while the SCMA-Ub is optimized for a single UHF channel. These preamplifiers can accept a wide range of input signal levels and offer excellent gain, making these units ideal for difficult signal areas. The SCMA-Ub has an internal trap that can be factory tuned to a customer specified UHF frequency to prevent overload or intermodulation interference from strong, local channels.

The CMA-b/SCMA-Ub Single Channel Preamplifier Series are housed in a die-cast case. Input, output, and test ports are 75 ohm, type "F" female connectors. The preamplifiers 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.

○ Features & Benefits

- Low Noise Figure
- Excellent Gain and Response Flatness
- Superior Adjacent Channel Overload Rejection
- Output Test Port for Uninterrupted Service Testing
- Ideal For All BTY Series Single Channel Antennas

○ Specifications

	CMA-b	SCMA-Ub
Electrical		
Noise Figure (dB):	3.5 (2-6), 2.0 (FM), 2.5 max (7-13)	2.5 (14-69)
Trap Depth:	NA	10 dB
Gain (dB):	29 (2-6), 24 (FM), 26 (7-13)	25 (14-34), 24 (35-69)
Bandwidth:	6, 20 (FM)	6
Bandpass Flatness (dB):	±0.25 (2-13), 1.0 (FM)	±0.75
Selectivity (dB):	12	12
Minimum Recommended Input Level (dBmV):		-10.5
Input Capability (dBmV):	10	+35
Impedance - All Ports (Ohm):	+35	75
General	75	
Power Requirements:	-21 VDC @ 40 mA	--21 VDC @ 29 mA
Recommended BT Power Supply:	PS-1526	PS-1526
Temperature Range (°C):	-40 to +60	-40 to +60
Mechanical		
Max. Mast Diameter (O.D.) (in):	1.5	1.5
Dimensions		
WxHxD in.:	5.00 x 3.88 x 2.31	5.00 x 3.88 x 3.00
WxHxD mm:	127 x 99 x 59	127 x 99 x 76
Weight		
lbs:	1.31	1.31
kg:	0.60	0.60
Connectors (Common to All)		
Input:	"F" type, female	
Output:	"F" type, female	
Test:	"F" type, female	

○ Ordering Information

Model	Stock No.	Description
SCMA-Ub	4426	Preamplifier Single Channel UHF, 470-806MHz (a)
CMA-B	4706	Preamplifier Single Channel VHF/FM, 54-216MHz (a)
PS-1526	1526	Power Supply Single Output, -21VDC @ 48mA
PS-1536	1536	Power Supply Dual Output, -21VDC @ 100mA

(a) Specify channel when ordering

Broadband VHF and UHF Preamplifiers

CMA Series



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 downleads.

○ Features & Benefits

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

○ 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 (Ohm):	75	75	75	75
Input Return Loss (dB):	10	12	11	-
Output Return Loss (dB):	11	9	8	-
General				
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
Mechanical				
Maximum Mast Diameter (O.D.) in.:	1.5	1.5	1.5	1.5
Dimensions WxHxD in:	5.13 x 3.50	5.13 x 3.50	5.13 x 3.50	5.00 x 3.88 x 3.00
WxHxD mm:	130 x 89	130 x 89	130 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
Connectors (Common to All)				
Input:	"F" type, female			
Output:	"F" type, female			
Test:	"F" type, female			

○ Ordering Information

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