

SCMA and CMA Series

Single Channel VHF and UHF Preampifiers



SCMA

The SCMA and CMA-b Single Channel Preampifier Series are professional quality, very low noise, single channel VHF/FM and UHF preampifiers. Both the SCMA and CMA-b are optimized for a single VHF channel or FM Band (88-108 MHz), while the SCMA-Ub is optimized for a single UHF channel. These preampifiers 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 SCMA/CMA-b Single Channel Preampifier Series are housed in a die-cast case. Input, output, and test ports are 75 ohm, type "F" female connectors. A 5/8" entry adapter is supplied on the SCMA Series (only) to allow use of a 0.500 or 0.750 aluminum cable connector. The preampifiers 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 preampifiers 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
- SCMA Series has its Guaranteed Noise Figure Stamped on the Case

○ Specifications

Electrical	SCMA	SCMA-Ub	CMA-b
Noise Figure (dB):	3.7, max (2-6) 3.0 max (FM) 2.5, max (7-13)	2.5 (14-69)	3.5 (2-6) 2.0 (FM) 2.5 max (7-13)
Trap Depth:	NA	10 dB	NA
Gain (dB):	27 (2-6), 24 (FM), 25 (7-13)	25 (14-34), 24 (35-69)	29 (2-6), 24 (FM), 26 (7-13)
Bandwidth:	6, 20 (FM)	6	6, 20 (FM)
Bandpass Flatness (dB): (FM)	±0.25 (2-13), 1.0 (FM)	±0.75	±0.25 (2-13), 1.0
Selectivity (dB):	12	12	12
Minimum Recommended Input Level (dBmV):	-10	-10.5	-10
Input Capability (dBmV):	+35	+35	+35
Impedance - All Ports (Ohm):	75	75	75
General			
Power Requirements:	-21 VDC @ 65 mA	-21 VDC @ 29 mA	-21 VDC @ 40 mA
Recommended BT Power Supply:	PS-1536	PS-1526	PS-1526
Temperature Range (°C):	-40 to +60	-40 to +60	-40 to +60
Mechanical			
Max. Mast Diameter (O.D.) (in):	1.5	1.5	1.5
Dimensions (WxHxD in.): (WxHxD mm):	5.13 x 5.25 x 3.50 130 x 133 x 89	5.00 x 3.88 x 3.00 127 x 99 x 76	5.00 x 3.88 x 2.31 127 x 99 x 59
Weight (lbs): (kg):	1.31 0.60	1.31 0.60	1.31 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	4761	Preampifier Single Channel VHF/FM, 54-216MHz (a)
SCMA-Ub	4426	Preampifier Single Channel UHF, 470-806MHz (a)
CMA-B	4706	Preampifier 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

CMA Series

Broadband VHF and UHF Preampifiers



The CMA Broadband Preampifier Series includes professional quality, low noise, broadband VHF & UHF preampifiers. 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 preampifiers 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 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
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	Preampifier Broadband VHF, 54-216MHz
CMA-HB	4448 HB	Preampifier Broadband High Band VHF, 174-216MHz
CMA-LB	4448 LB	Preampifier Broadband Low Band VHF, 54-88MHz
CMA-UC	1264	Preampifier Broadband UHF, 470-806MHz
PS-1526	1526	Power Supply Single Output, -21VDC @ 48mA
PS-1536	1536	Power Supply Dual Output, -21VDC @ 100mA