

Single Channel VHF and UHF Preamplifiers

CMA-b & SCMA-Ub Series



Reception

○ 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

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 downleads.

Electrical

	CMA-b	SCMA-Ub
Noise Figure (dB):	3.5 (2-6), 2.0 (FM), 2.5 max (7-13)	2.5 (14-69)
Trap Depth (dB):	NA	10
Gain (dB):	29 (2-6), 24 (FM), 26 (7-13)	25 (14-34), 24 (35-69)
Bandwidth (MHz):	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	10.5
Input Capability (dBmV):	+35	+35
Impedance - All Ports:	75Ω	75Ω

General

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		
W x H x D in.:	5.00 x 3.88 x 2.31	5.00 x 3.88 x 3.00
W x H x D 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" Female	"F" Female
Output:	"F" Female	"F" Female
Test:	"F" Female	"F" Female

○ Ordering Information

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

(a) Specify channel when ordering