



**BLONDER  
TONGUE**  
LABORATORIES, INC.

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## INSTRUCTION MANUAL

# MSBC

Sub-Band Block Converter

Stock No. 7727

### Description

The MSBC is a modular sub band block up-converter designed for use in Blonder Tongue's HE Series rack chassis'. The unit provides sub-band capability to MIDM-806C demodulators by block converting sub-band channels T7 to T13 to receivable VHF channels 7 to 13. The MIDM-806C A/V outputs can then be connected to a modulator such as a MICM-45C, AMCM 860 or AMM Series for a complete modular headend processing solution.

651215400A



## Specifications (Typical)

### RF

Input Frequency Range: 5.75-47.75 MHz  
(Channels T7-T13)  
Output Frequency Range: 174-216 MHz  
(Channels 7-13)  
Recommended Input Level Range: 0 to +20 dBmV  
Conversion Gain: 3 dB  
Flatness: 1.5 dB P/V  
LO Frequency accuracy @ 25 deg. C: +/- 500 Hz  
Intermod Distortion: -60 dBc  
(In band Ch. 7-13 @ 0 to + 20 dBmV input)  
Input/Output Impedance: 75 Ohm  
Return Loss: Input: 15 dB/ Output: 17 dB

### Electrical

12 VDC, 100 mA  
1.2 Watts

### Mechanical

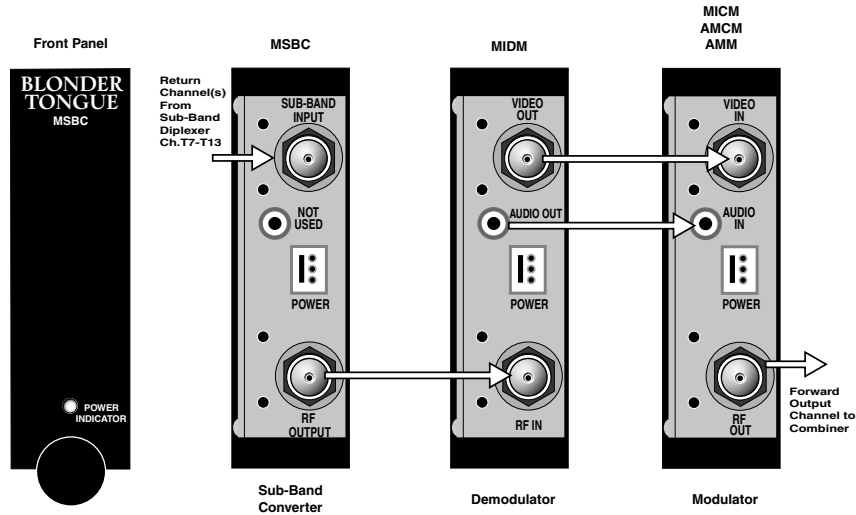
Dimensions: 1.15 x 3.5 x 7.5 in.  
Weight: 13.5 oz.  
Temperature Range: 0 to 50 degrees C

### Connectors (Rear)

Sub-Band Input: "F" Type Female  
RF Output: "F" Type Female  
Power: Locking Header 3 Pin

### Indicators (Front)

Power Green LED



INPUT		LO FREQ.	OUTPUT	
Channel	Frequency		Channel	Frequency
T7	7 MHz	168.25 MHz	7	175.25 MHz
T8	13 MHz	168.25 MHz	8	181.25 MHz
T9	19 MHz	168.25 MHz	9	187.25 MHz
T10	25 MHz	168.25 MHz	10	193.25 MHz
T11	31 MHz	168.25 MHz	11	199.25 MHz
T12	36 MHz	168.25 MHz	12	205.25 MHz
T13	43 MHz	168.25 MHz	13	211.25 MHz

### Returning Product for Repair (or Credit)

**A Return Material Authorization (RMA) Number is required on all products returned to Blonder Tongue**, regardless if the product is being returned for repair or credit. Before returning product, please contact the Blonder Tongue Service Department at 1-800-523-6049, Ext. 4256 or visit our website: [www.blondertongue.com](http://www.blondertongue.com) for further information.



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