

## 900 SERIES MIC/LINE INPUT MODULE:

## **ML-11T**

The new ML-11T Mic/Line Module with Mute Send/Receive combines features of TOA's most popular 900 Series modules to help simplify system design, expansion and purchasing.

The new ML-11T provides multiple functions including switchable mic/line input, input trim and gain controls, adjustable mute-send threshold (VOX sensitivity), and combination mute-send and mute-receive capability. A hysteresis function ensures smooth muting transitions, and a removable terminal block connector allows fast and easy terminations. The ML-11T and all TOA 900 Series products are backed with a five year warranty.

#### **SPECIFICATIONS**

Power Source	+24 VDC
<b>Current Consumption</b>	25mA
Input	1 channel, -60/-20 dB (changeable), 10k $\Omega$ , balanced, removable terminal block (3 pins)
Phantom Power	+24 VDC
Frequency Response	20 - 20,000 Hz, +1, -1 dB
Distortion	0.05%
Gain	10 - 50 dB
Operating Temperature	14° to 104° F (-10° to 40° C)
Finish	Panel: Aluminum, hair-line
Dimensions (WxHxD)	1.4" x 3.1" x 3.6" (35 x 78 x 91.5 mm)
Weight	0.1 lbs. (49 g)
Accessories	Removable terminal plug (3 pins) Module mouting screws (2)

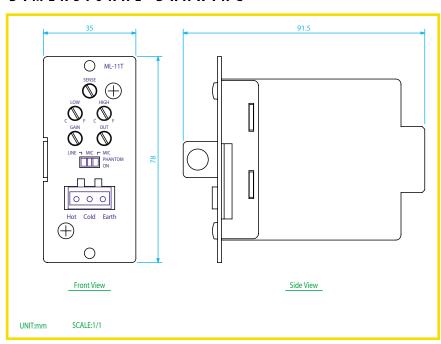


## **HIGHLIGHTS**

#### **FEATURES**

- Switchable Mic/Line Input
- Input Trim and Gain Controls
- Adjustable Mute-Send Threshold (VOX sensitivity)
- High and Low Cut Filters
- Phantom Power (+24 VDC)
- **VOX Function** Voice-activated mute send operation
- Combination Mute Send and Receive Function
  - respond to Mute function of higher priority Mute-Send module(s)
  - activate Mute function of lower priority Mute-Receive module(s)
- Mute Bus #1 and #2 Connection
- Hysteresis Function ensures smooth muting transitions
- Removable Terminal Block Connector
- Five Year Warranty

#### DIMENSIONAL DRAWING



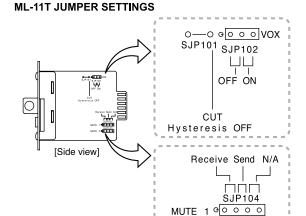


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# 900 SERIES **MODULE: ML-11T**

### **SPECIFICATIONS**

900 SERIES MODULE SELECTION CHART		M	°		•	• 0 •	.00	
		Removable Terminal Block	Fema <b>l</b> e XLR	Ma <b>l</b> e XLR	1/4" Phone Jack	RCA Jack	Dual RCA Jacks	5 Screw Termina <b>l</b> s
	Mic/Line Input w/ Mute Send/Receive	ML-11T						
a S	Standard with high/low cut filters	M-01S	M-01F	M-01M	M-01P			
▍░▗▔	Mute-Receive with high/low cut filters	M-11S						
축 🎅 -	Mute-Send with high/low cut filters	M-41S						
₹ ₹ -	Voice Gate with low cut filters	M-51S	M-51F					
I ĕ ≅	Compressor with high/low cut filters	M-61S	M-61F					
~ = -	Remote Volume Control with high/low filters							M-21S
	For high-Z mic. only w/ high/low cut filters				M-03P			
	Mic/Line Input w/ Mute Send/Receive	ML-11T						
		B-01S	L-01F					
	Standard, no special features	L-01S	B-01F		U-01P	U-01R		
	,,	U-01S	U-01F					
*	Standard with high/low cut filters	U-03S					U-03R	
<u>8</u> -	Mute-Receive	B-11S						
₹		L-11S				U-11R		
▎▗▘▗		U-11S						
🛎 _	Mute-Receive with high/low cut filters	U-13S					U-13R	
출 _	Mute-Receive with variable mute depth	U-12S						
Line Input Modules*	Mute-Send	B-41S L-41S						
	Mute-Send with high/low cut filters	U-43S					U-43R	
	Remote Volume Control							B-21S U-21S
	Compressor	U-61S						
	Dual input priority w/AGC						U-14R	
	Line output	T-01S						
_	Line input with Music-On-Hold (MOH) output							T-02S
_	Line input w/ MOH & input Mute-Receive							T-12S
Special Function Modules	1 kHz Sine Wave test tone	S-01S						
┃_ ᇴ_	Buzzer/Yelp signal tone	S-02S						
₹ 8-	Switch-selectable tone	S-04S						
<u>ĕ</u> =	Digital message/tone with USB	S-20S						
<u>~</u>	Equalizer for F-122CU Speakers						E-03R	
Š-	Equalizer for H-1 Speakers						E-04R	
<u> </u>	Equalizer for H-2/H-2WP Speakers						E-05R	
	Equalizer for H-3/H-3WP Speakers Low Pass Filter for FB-100/HB-1 Subwoofers	E 070					E-06R	
_	Remote master volume control (VCA)	E-07S						
	nemote master volume control (vcA)	V-01S						



SJP103 MUTE 290000

Designator	Setting
SJP101	Cutting the jumper disables hysteresis during VOX or MUTE send (if set) operation.
SJP102	OOO OFF: Disables VOX. OOO ON: Enables VOX.
SPJ103 (for MUTE 2)	This module is muted when the MUTE 1 or 2 bus is short-circuited by other module.
SPJ104 (for MUTE 1)	o o o Send:  Mutes other modules connected to the MUTE 1 or 2 bus when the signal is input to this module.  ○ ○ ○ ○ N/A: Mute function not applicable

\*For Line Input Modules:

Use "B" modules w/ transformer isolation for balanced/unbalanced sources.
Use "L" modules only for 600 ohm impedance matching.

Use "U" for unbalanced sources w/ short cables (≤ 15 feet).

#### 900 SERIES MUTING MODULES

The two types of muting modules, MUTE-RECEIVE and MUTE-SEND, have mute function circuitry that connects to two common "MUTE" buses, and one common "GROUND" bus when installed in an A-900MK2 mixer/amplifier or M-900MK2 mixer/pre-amplifier. A "BUS" is simply an internal wire that connects from module-slot to module-slot. You can access these buses via rear-panel screw terminals, labeled, "MUTE 1", "MUTE 2" and "GND". Mute-type modules connect to both mute buses "out-of-the-box". You can disconnect the module's mute function circuitry from each mute bus by cutting jumper wires on the modules. This allows you to configure systems with multiple levels of priority.

MUTE-RECEIVE modules respond to mute bus activation in either of two ways: 1) Switch Activation: Connecting a switch closure between the "MUTE" (1 or 2) and "GND" screw terminals on the rear of the mixer/amplifier activates the mute function circuitry of MUTE-RECEIVE modules connected to the same bus. This is also referred to as "manual muting". 2) Auto-Mute: When input signal level to a MUTE-SEND module exceeds a user-adjustable threshold, the module's mute function circuitry activates the mute function circuitry of all MUTE-RECEIVE modules connected to the same bus. This is also referred to as "signal-activated muting".

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