

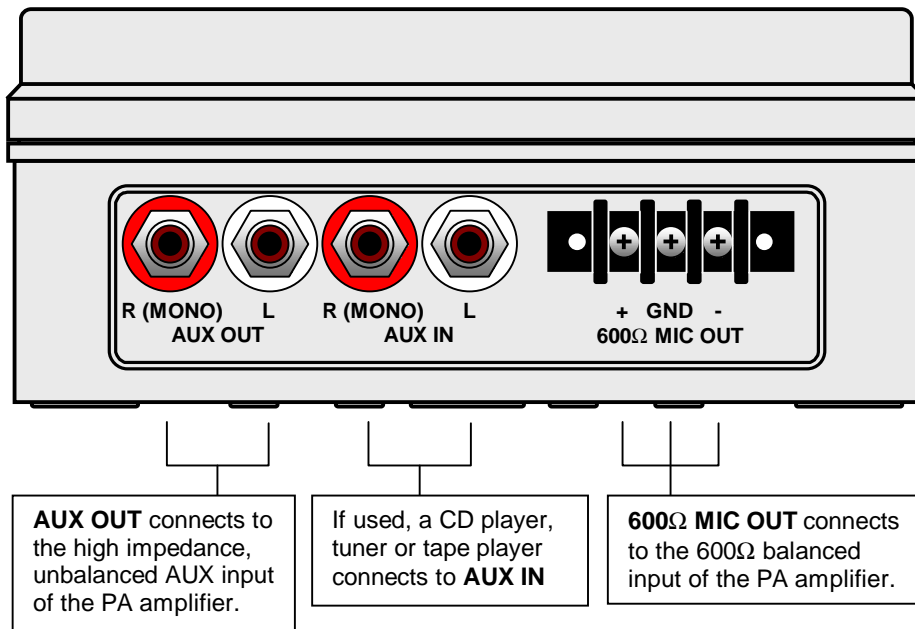


LPA-Series Loudmouth Receiver

The LPA-Series receiver is designed for interface to existing wired Public Address systems to allow PA announcements using VHF or UHF business band, FRS, or MURS 2-way radios.

Features:

- Available in VHF (150-162 MHz) and UHF (450-470MHz) frequency bands.
- Provides interconnection to the Public Address amplifier through a high impedance, unbalanced AUX input **OR** a 600Ω, balanced MIC input.
- If the AUX input of the PA/Intercom amplifier is already used (i.e: stereo tuner for background music) the LPA-Series is installed in-between the audio source (stereo tuner) and the PA/Intercom amplifier. When the LPA-Series receives a message the audio source is interrupted and the received message is sent to the PA/Intercom amplifier instead.
- "Record and Play" allows use of radios in close proximity to PA speakers without feedback. The LPA-Series records received messages up to 30 seconds in length, then plays them over the PA immediately after the message is complete.
- Easy "Plug and Play" installation.
- Programmable volume control adjusts audio output level.
- Selective signaling includes QC, DQC, Selcall, 2-Tone
- Pre-announce tone (programmable on/off and volume level)
- NOAA Weather Alert (VHF only)
- Field or PC programmable
- The LPA-Series is for interface only, it cannot drive a loudspeaker.
- The LPA-Series is for indoor use ONLY.
- LPA can be used along with the LM series stand-alone wireless receiver and horn speaker.
- Audio Cables Not Included (Available at Radio Shack and most audio retailers)



Loudmouth™ Receiver

Receiver physical dimensions	7.0"H x 5.0"W x 3.0"D	
Receiver enclosure material	Valox® Thermo-plastic	
Receiver color	Gray (RAL# 7035)	
Receiver weight	1 lb. 15 oz. (with AFB-1545 antenna and BP-LM9 battery)	
Receiver mounting	top and bottom aluminum bracket	
Receiver environmental	indoor use only	
AUX OUT	Connectors Maximum Output Output Impedance	RCA Phono jacks 4 VAC peak (LPA-Series received audio is adjustable) 50kΩ, unbalanced
AUX IN	Connectors Maximum Output Output Impedance	RCA Phono jacks 4 VAC peak (audio routed directly to AUX OUT when LPA-Series is not receiving) 50kΩ, unbalanced
600Ω MIC OUT	Connectors Maximum Output Output Impedance	Screw terminals (plus, minus, ground) 200mVAC peak 600Ω, balanced
DC power connector	2.1mm coaxial DC jack (size M)	
Antenna connector	50Ω BNC	
Antenna	AFB-1545 dual-band (150-170 MHz, 450-470 MHz)	
Selective signaling decode capability	<ul style="list-style-type: none"> • CTCSS (Quiet Call) • Digital Coded Squelch (Digital Quiet Call) • Selcall ID • 2-Tone Paging Decode 	
Noise squelch sensitivity	Programmable, factory set for 12 dB SINAD	
Frequency response	300 - 3000 Hz, de-emphasized	
Receiving System	Dual conversion superheterodyne	
I.F. System	1st 43.65 MHz 2nd 450 kHz	
QC/DQC decode time	per EIA Standards	
2-Tone decode frequency range	300 – 1500 Hz	
Selcall decode standard	EEA tone set, 3-7 digits	

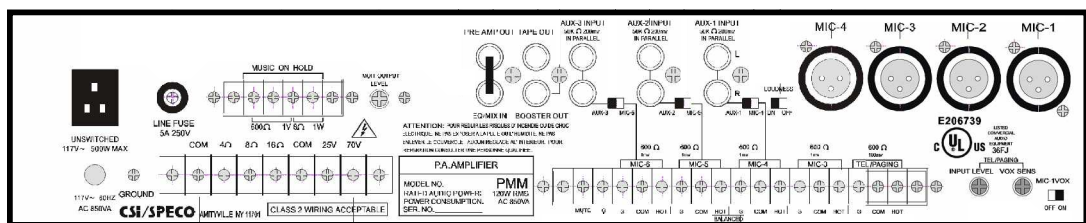
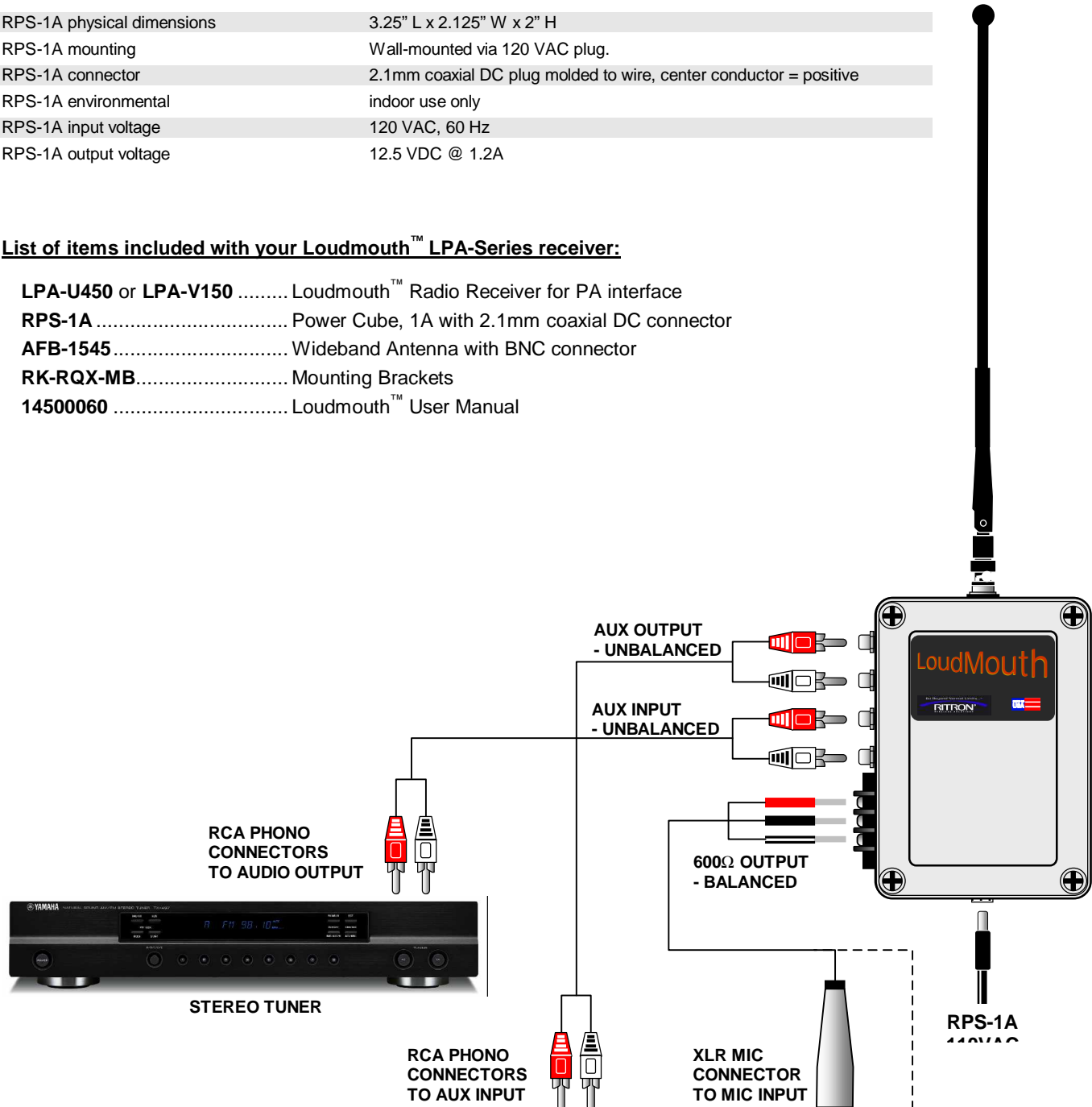
	LPA-U450		LPA-V150	
FCC ID	AIERIT27-450		AIERIT27-150	
Canada	1084A-RIT27-450		1084A-RIT27-150	
Frequency range	450 - 470 MHz		150 – 165 MHz	
Synthesizer steps	6.25 kHz		2.5 kHz	
Frequency stability	+/-1.5 PPM (-30° to +60° C)		+/-2.5 PPM (-30° to +60° C)	
Modulation acceptance	wide	+/- 5.0 kHz	wide	+/- 5.0 kHz
	narrow	+/- 3.75 kHz	narrow	+/- 3.75 kHz
Typical sensitivity (12 dB SINAD)	wide	0.15 μV (-123 dBm)	wide	0.16 μV (-123 dBm)
	narrow	0.19 μV (-121 dBm)	narrow	0.18 μV (-122 dBm)
L.O. Injection	RX frequency – 43.65 MHz		RX frequency + 43.65 MHz	
Adjacent Channel (EIA)	wide	-70 dB	wide	-70 dB
	narrow	-60 dB	narrow	-60 dB
Spurious rejection	wide	-70 dB	wide	-70 dB
	narrow	-60 dB	narrow	-60 dB
Image rejection (EIA)	wide	-60 dB	wide	-80 dB
	narrow	-60 dB	narrow	-80 dB
Intermodulation (EIA)	wide	-65 dB	wide	-65 dB
	narrow	-65 dB	narrow	-65 dB
QC/DQC decode deviation requirement	wide	500 – 850 Hz	wide	500 – 850 Hz
	narrow	350 – 500 Hz	narrow	350 – 500 Hz
2-Tone decode deviation requirement	wide	2.5 – 3.5 kHz	wide	2.5 – 3.5 kHz
	narrow	1.5 – 2.5 kHz	narrow	1.5 – 2.5 kHz

RPS-1A Power Cube

RPS-1A physical dimensions	3.25" L x 2.125" W x 2" H
RPS-1A mounting	Wall-mounted via 120 VAC plug.
RPS-1A connector	2.1mm coaxial DC plug molded to wire, center conductor = positive
RPS-1A environmental	indoor use only
RPS-1A input voltage	120 VAC, 60 Hz
RPS-1A output voltage	12.5 VDC @ 1.2A

List of items included with your Loudmouth™ LPA-Series receiver:

- LPA-U450 or LPA-V150 Loudmouth™ Radio Receiver for PA interface
- RPS-1A Power Cube, 1A with 2.1mm coaxial DC connector
- AFB-1545 Wideband Antenna with BNC connector
- RK-RQX-MB Mounting Brackets
- 14500060 Loudmouth™ User Manual



PUBLIC ADDRESS AMPLIFIER

