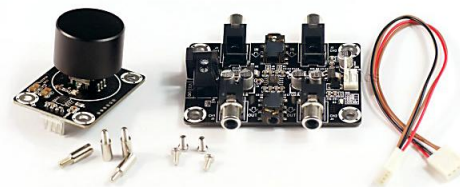


Audio Receiver Series

Digital Stereo Audio Volume Control Board Explorer (AA-AB41116)



Key Features:

- Single-end Audio Signal Output
- LED Status Indicator
- External Power and Signal Output Connector
- Anti-reverse Function
- Several wiring methods
- Excellent heat dissipation
- Size:3"X2"

Electrical Specifications

Specifications typical @ +25°C, Powered by 12V DC, unless otherwise noted. Specifications subject to change without notice.

Parameter	Conditions	Min.	Typ.	Max.	Units
Power Supply	-	-	12	-	VDC
Quiescent Current	-	-	10	-	mA
Maximum Current	-	-	0.5	-	A
Operating Temperature	-	-	20	50	°C
Storage Temperature	-	-20	20	105	°C
Thermal Temperature	-	-	150	-	°C

Environmental Conditions:

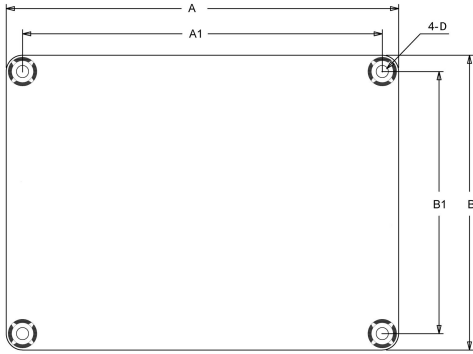
- Humidity: 5-85% RH Non-condensing
- Operating Temperature Ambient: 0°C to +55°C
- Storage Temperature: -40°C to 85°C

Electrical Specifications of PT2259

Condition: Vcc=9V, Vi=1Vrms, f=1KHz, Temp=27°C

Parameter	Conditions	Min.	Typ.	Max.	Units	
Maximum Output Voltage	Vcc=9V,freq=1KHz,Volume Att.=0dB, Rload=50KΩ, THD<1%	2.0	2.3	2.5	Vrms	
Total Harmonic Distortion	F=1KHz,Volume Att.=0dB,A-weight Rload=50KΩ	-	0.07	0.09	%	
	Vout=2Vrms	-	0.003	0.005		
Noise Output	Vin=GND,Mute=OFF,Volume Att.=0dB,A-weighted	-	2	3	μVrms	
Signal-to-Noise Ratio	Vin=1Vrms,Att.=0dB	No-weighted	95	100	103	dB
		A-weighted	110	120	125	
Channel Separation	Vin=2.5Vrms,freq.=1KHz,Volume Att.=0dB	100	120	125	dB	
Mute	Vin=2.5Vrms,freq.=1KHz,Volume Att.=0dB,A-weighted	90	95	97	dB	

Mechanical Dimensions



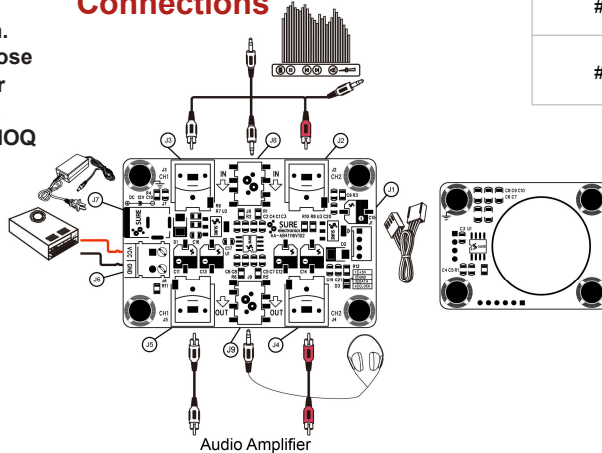
Model Selection Guide

Model Number	Input						Output				Dimension
	BT	I2S	S/PDIF	USB Codec	Isolated Analog	High Level Speaker	RCA Analog	3.5mm Analog	I2S	S/PDIF	
AA-AA21111				Y			Y	Y		Y	3"X2"#1
AA-AB41133			Y						Y	Y	3.6"X2.7"#2
AA-AB41131		Y					Y	Y			3"X2"
AA-AB41132	Y						Y	Y			3"X2"
AA-AB41136	Y						Y	Y			3"X2"
AA-AA11422					Y	Y	Y				3.6"X2.7"

Dimension	A (inch/mm)	A1 (inch/mm)	B (inch/mm)	B1 (inch/mm)	D (inch/mm)
#1	3.0/ 76.2	2.7/ 68.6	2.0/ 50.8	1.7/ 43.2	0.14/ 3.6
#2	3.6/ 100.3	3.3/ 83.8	2.7/ 68.6	2.4/ 61.0	0.14/ 3.6

All these boards are per-tested with our power supply solution. For all customers who need those information, please contact our distributor or Sure Electronics. RoHS compliant will need an MOQ of 1000pcs per order.

Connections



Notes:

- All dimensions are typical in inches (mm)
- Tolerance x.xx = ±0.02 (±0.50)

Power Supply Connector:

- J7 DC Jack 5.5mm/2.5mm
- J6 Terminal Block RJ128 (optional)

Audio Source Input Connector

- J2, J3 RCA Jack
- J8 3.5mm Headphone Jack

Audio Amplifier Input Connector

- J4, J5 RCA Jack
- J9 3.5mm Headphone Jack

Rotary Encoder Connector

- J1 4Pin cable

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