

Ground Isolation Amplifier

BA3121F/BA3123F Evaluation Board Manual

BA3121/23F-EVK-001

■General

BA3121F is a ground isolation amplifier developed for car audio applications. This IC efficiently eliminates problems caused by wiring resistance and removes noise generated by other electrical devices used in automobiles. The external capacitor values required for this IC are so small that it allows for compact and reliable set design.

●Index

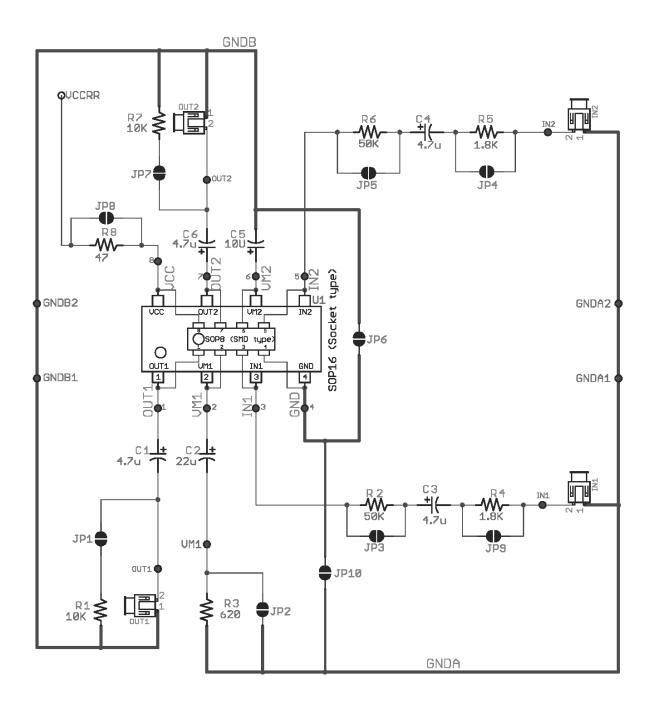
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Conditions

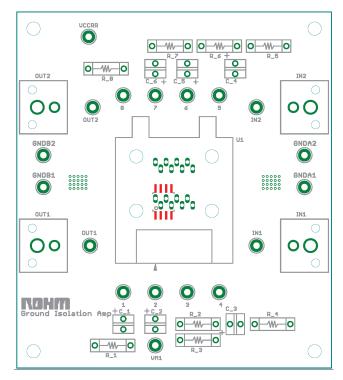
Item	Symbol	Range	Unit
Power Supply Voltage	V_{cc}	+4.0 ~ +18.0	V

This document is information of the evaluation board when we evaluated the device. This information will help you when designing your evaluation board. Notice, the evaluation board is not available for sale.

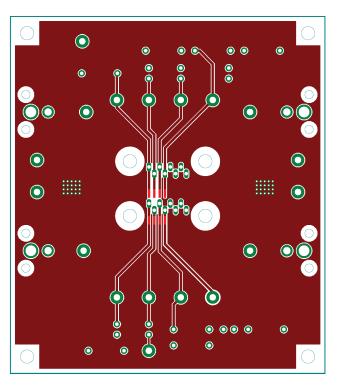
●Circuit Diagram



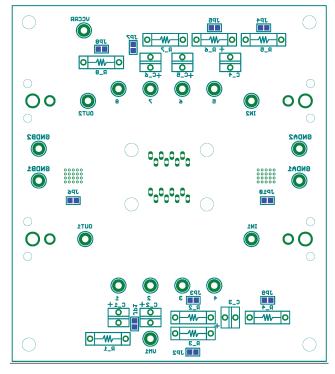
●PCB layout



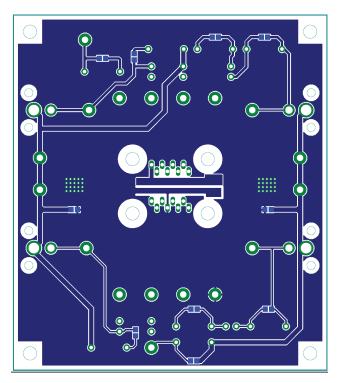
TOP SILKSCREEN - TOP VIEW



TOP LAYER - TOP VIEW

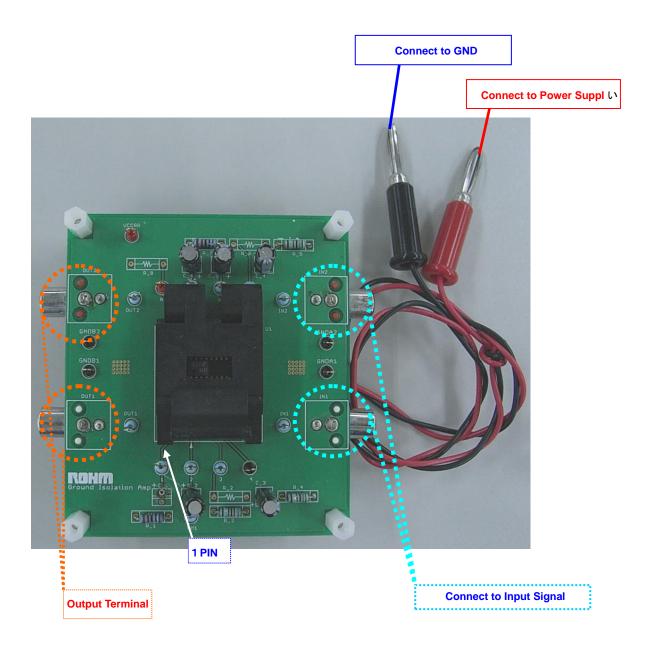


BOTTOM SILKSCREEN - TOP VIEW



BOTTOM LAYER - TOP VIEW

●Usage



- ① Insert the device of BA3121/31F in the socket. Be matched the position of 1-pin (left-under).
- 2 Connect the Power Supply and GND.
- 3 Input the Audio source.
- 4 Power On.

●BOM List

num	Part number	Туре	Value
1	U1	BA3121F /BA3123F	_
4	C_1, C_3, C_4, C_6	Electrolytic Capacitor	4.7µF
1	C_5	Electrolytic Capacitor	10μF
1	C_2	Electrolytic Capacitor	22µF
2	R_4, R_5	Resister	1.8kΩ
2	R_1,R_7	Resister	10kΩ
1	R_8	Resister	47Ω
2	R_2,R_6	Resister	50kΩ
1	R_3	Resister	620Ω

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