

1	2	3	4	5	6
A					A
B					B
C					C
D					D
1	2	3	4	5	6

PCB Number: TIDA-010238
PCB Rev: E1

PCB
LOGO
Texas Instruments



PCB
LOGO
FCC disclaimer

PCB
LOGO
WEEE logo

ZZ1
Label Assembly Note
This Assembly Note is for PCB labels only

ZZ2
Assembly Note
These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3
Assembly Note
These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

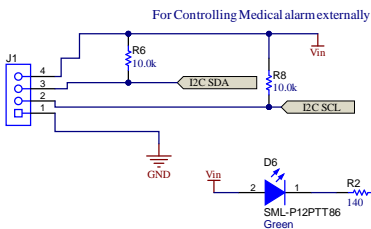
ZZ4
Assembly Note
These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

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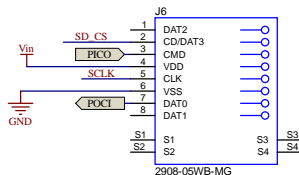
Orderable:	Designed for: Public Release	Mod. Date: 5/2/2023
TID #:	TIDA-010238	Project Title: TIDA-010238
Number: TIDA-010238	Rev: A	Sheet Title:
SVN Rev:	Assembly Variant: [No Variations]	Sheet: 2 of 5
Drawn By:	File: IEC60601-1-8_Medical_Alarm_ref_des_Hardware_Schematic	http://www.ti.com
Engineer:	Contact: http://www.ti.com/support	©Texas Instruments 2021



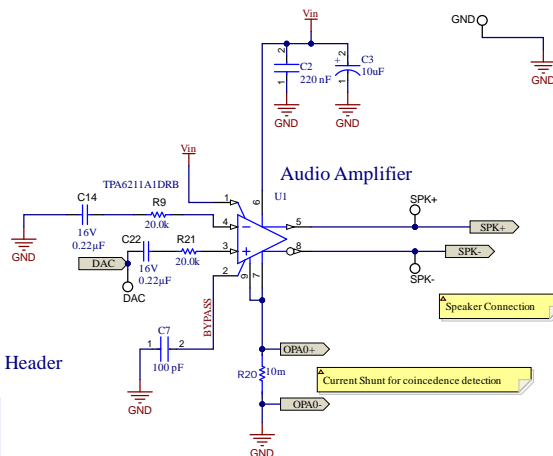
I2C + PWR Header



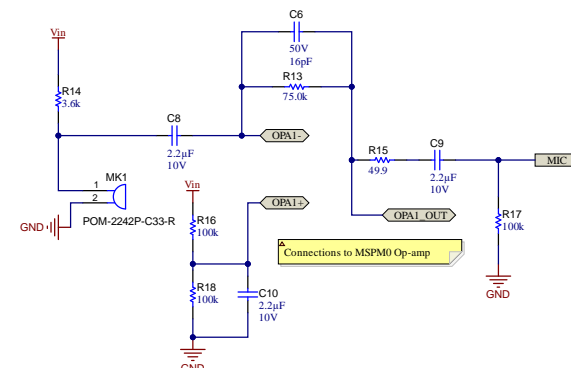
Option For Micro SD Slot



Main Auditory Circuit

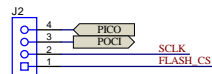


Optional Microphone

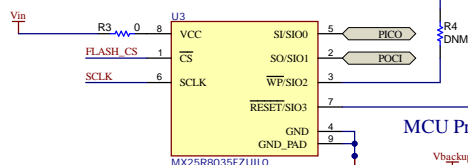


SPI Header

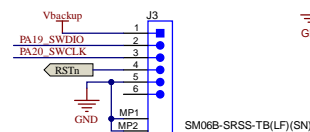
For writing Audio to External Flash



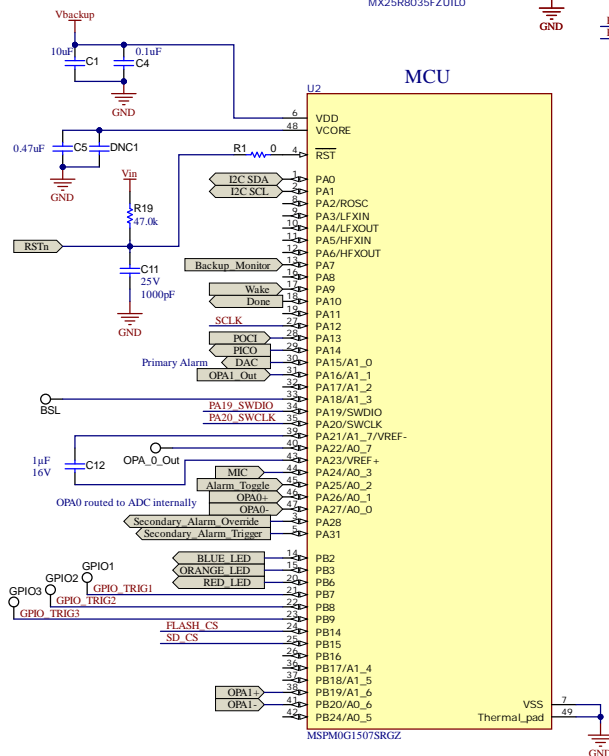
Option For External Flash



MCU Programming Header



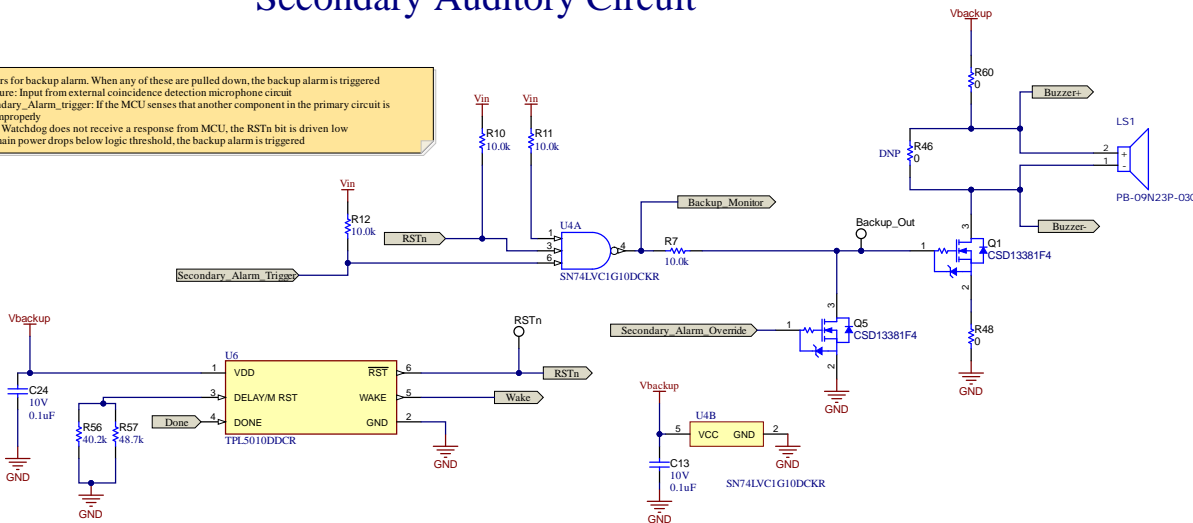
MCU



Secondary Auditory Circuit

Various triggers for backup alarm. When any of these are pulled down, the backup alarm is triggered

- Speaker Failure: Input from external coincidence detection microphone circuit
- MCU Secondary Alarm trigger: If the MCU senses that another component in the primary circuit is functioning improperly
- RSTn: If the Watchdog does not receive a response from MCU, the RSTn bit is driven low
- Vin: When main power drops below logic threshold, the backup alarm is triggered



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Orderable:	TIDA-010238	Designed for: Public Release	Mod. Date: 7/10/2023
TID #:	TIDA-010238	Project Title: TIDA-010238	
Number:	TIDA-010238 Rev: A	Sheet Title: IEC60601-1-8 Medical Alarm Audio	
SVN Rev:	Unknown revision	Assembly Variant: [No Variations]	Sheet: 5 of 5
Drawn By:		File: IEC60601-1-8 Medical Alarm ref des Audio S4 SDC B	
Engineer:		Contact: http://www.ti.com/support	