Onstate Technologies				Bill of Materials:	CIR-PEAGM LINE	
www.OnstateTech.com			file: BOM AGM ALC Audio line	PCB Version: 1	Date: April /18	
Part #:	Qty.	Value:	Description:	Note	Digikey #:	MFG #
R-L/R	2	0.47k	0.47k Ohm resistor, 1/6W 5%, 0.2"	L/R audio input	470EBK-ND	CFR-12JB-52-470R
R6	1	2.2k	2.2k (1.5-4.7k) Ohm resistor, 1/6W 5%	Audio ALC in divider	2.2KEBK-ND	CFR-12JB-52-2K2
R7	1	0R	wire jumper	Audio ALC divider limit		
R8	1	220k	220k Ohm resistor, 1/6W 5%, 0.2"	Q2 + offset	220KEBK-ND	CFR-12JB-52-220K
R9	1	100k	100k Ohm resistor, 1/6W 5%, 0.2"	Audio ALC + offset	100KEBK-ND	CFR-12JB-52-100K
R10	1	56k	56k Ohm resistor, 1/6W 5%, 0.2"	Audio ALC + offset	56KEBK-ND	CFR-12JB-52-56K
R11	1	10k	10k Ohm resistor, 1/6W 5%, 0.2"	Q2 ALC rate	10KEBK-ND	CFR-12JB-52-10K
R12	1	150k	150k Ohm resistor, 1/6W 5%, 0.2"	Op-amp gain	150KEBK-ND	CFR-12JB-52-150K
R13	1	27k	27k Ohm resistor, 1/6W 5%, 0.2"	Op-amp gain	27KEBK-ND	CFR-12JB-52-27K
R14	1	27k	27k Ohm resistor, 1/6W 5%, 0.2"	Audio out load limit	27KEBK-ND	CFR-12JB-52-27K
R15	1	10k	10k Ohm resistor, 1/6W 5%, 0.2"	LED level in R	10KEBK-ND	CFR-12JB-52-10K
R16	1	560k	560k resistor, bend right side wire to R17 right side	LED level hyst.	560KEBK-ND	CFR-12JB-52-560K
R17	1	150k	15k Ohm resistor, 1/6W 5%, 0.2"	LED level ref.	15KEBK-ND	CFR-12JB-52-15K
R18	1	6.8k	6.8k (6.2-8.2k) Ohm resistor, 1/6W 5%, 0.2"	LED level ref.	6.8KEBK-ND	CFR-12JB-52-6K8
R19	1	2.2k	2.2k Ohm resistor, 1/6W 5%, 0.2"	LED brightness	2.2KEBK-ND	CFR-12JB-52-2K2
R-OUT	1	1.0k	1.0k Ohm resistor, 1/6W 5%, 0.2"	Audio out load	1.0KEBK-ND	CFR-12JB-52-1K
VR1,VR2,VR3	3	optional	trimmer R, top adjust, center pin back	Signal/level adjustments	3362P	3362P-1
D1	1	1N4148	diode, 200mA, diode	Input diode	1N4148FS-ND	
D2	1	BAT42	schottky diode, 200mA, DO35	ALC delay	497-2495-1-ND	BAT42
C1, C2	2	10uF	10uF ele. cap, 16-50V 0.1"	Filter, DC in/out	P5134-ND	ECA-1CM100
C6	1	1.0uF	1.0uF ele. cap, 16-50V 0.1"	Audio in AC pass	604-1118-ND	RFS-50V010MF3#5
C7	1	0.22uF	0.22uF (224) cer. cap, 16-50V 0.1"	Audio AC pass	445-173137-1-ND	FG14X7R1H224KNT06
C8	1	10uF	10uF ele. cap, 16-50V 0.1"	ALC delay response	P5134-ND	ECA-1CM100
C9	1	104	0.1uF (104) cer. cap, 16-50V 0.1"	ALC CTRL filter	478-3192-ND	SR205E104MAR
C10	1	10uF	10uF ele. cap, 16-50V 0.1"	Audio HP filter	P5134-ND	ECA-1CM100
C11	1	10uF	10uF ele. cap, 16-50V 0.1"	Audio out AC pass	P5134-ND	ECA-1CM100
C12, C13	2	103 (optional)	0.01uF (103) cer.cap, 16-50V 0.2"	Audio sig noise filter	399-4206-ND	C317C103K5R5TA
Q1	1	J175	JFET P-Ch 30V TO-92	Sig. Div -.	J175-D26ZCT-ND	J175_D26Z
REG1	1	78L08	LDO 9V 0.1A TO-92	8V reg.	C78L08ABPGOS-ND	MC78L08ABPG
IC1	1	LM258N	LM258 (358) dual op-amp, DIP8	dual op-amp	LM258NFS-ND	LM258N
H1, H2	2	2-PIN	2 pin locking header, RA, 0.1" POWER	align flat	A1926-ND	640457-3
CRIMP	4	CRIMP	0.1" crimp pins	hand crimp	A100453CT-ND	1375819-1
CON1, CON2	2	2-CON	2 pin locking housing, 0.1"	hand crimp	A99613-ND	1375820-2
PCB	1	PCB-PEAGM	PCB, automatic gain module, microphone, audio, 2.22"x1.22"		PCB-PEAGM	