P0

1	MIDI
2	LG1
3	LS1
4	GND
5	VCC
6	HS1
7	HG1
8	LG2
9	LS2
10	HS2
11	HG2

Header 11H

P1

6	DTC
5	GND
4	E1
3	GND
2	E2
1	GND

Header 6H

U2 IR2110S

VCC

C6 10uF 0805
C7 0.1uF

11	VDD	HO	8	HG1
12	HIN	VB	7	
13	SD	VS	6	HS1
14	LIN			
		NC	16	
15	VSS	NC	10	
4	NC	VCC	3	
5	NC	COM	2	LS1
9	NC	LO	1	LG1

D1 VCC
Diode S
C8 10uF 0805
C9 10uF 0805

GND

GND

U1 TL494CD

Freq Res Adj 100K

C1 1nF

VREF

6	RT	VCC	12	
5	CT			VREF
	DTC	VREF	14	
1	IN1+	CNTLO		
2	IN1-		13	
3	CMPEN	C1	8	
15	IN2-	E1	9	E1
16	IN2+			
7	GND	C2	11	
		E2	10	E2

DTC

VCC
C2 0.1uF
C3 10uF 0805
GND

R2 0805 0R - 10R E1
R3 0805 0R - 10R E2

C4 100pF

GND

GND GND

MIDI

C5 100pF

VREF

Duty Res Adj 100K

GND

U3 IR2110S

VCC

C11 10uF 0805
C10 0.1uF

11	VDD	HO	8	HG2
12	HIN	VB	7	
13	SD	VS	6	HS2
14	LIN			
		NC	16	
15	VSS	NC	10	
4	NC	VCC	3	
5	NC	COM	2	LS2
9	NC	LO	1	LG2

D2 VCC
Diode S
C12 10uF 0805
C13 10uF 0805

GND

GND

Title	
Size A	Number
Date: 9/13/2017	Revision
File: C:\Users\..\Plasma Speaker SMD.SchDoc	Sheet of
	Drawn By: Boning Dong

Comment	Description	Designator	Footprint	LibRef	Quantity
0603	Capacitor	C1, C2, C4, C5, C7, C10	D0603	Cap	6
0805	Capacitor, Capacitor, Capacitor, Capacitor, Capacitor, Capacitor, Capacitor, Resistor, Resistor	C3, C6, C8, C9, C11, C12, C13, R2, R3	D0805	Cap, Cap, Cap, Cap, Cap, Cap, Cap, Res1, Res1	9
Diode S	Zener Diode	D1, D2	DO-214	Diode S	2
Res Adj	Resistor	Duty, Freq	RES-3362P	Res Adj	2
Header 11H	Header, 11-Pin, Right Angle	P0	HDR1X11H	Header 11H	1
Header 6H	Header, 6-Pin, Right Angle	P1	HDR1X6H	Header 6H	1
TL494CD	Switchmode Pulse Width Modulation Control Circuit	U1	751B-05_N	TL494CD	1
IR2110S	High and Low Side Drive	U2, U3	SOIC16_N	IR2110S	2