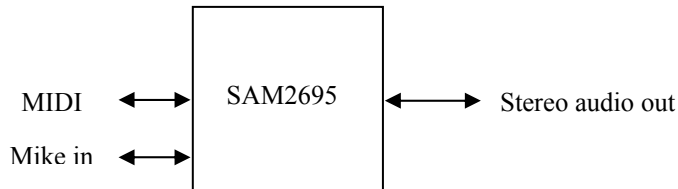


Overview

2695-EK demonstrates a typical low cost and low power application of SAM2695 (LOW POWER SINGLE CHIP SYNTHESIZER WITH EFFECTS AND BUILT-IN CODEC).



2695-EK provides:

- High quality wavetable synthesis with 64 voices polyphony (38 voices with effects)
- General MIDI implementation
- General MIDI compatible reverb and chorus
- Spatial effect
- 4-band stereo equalizer

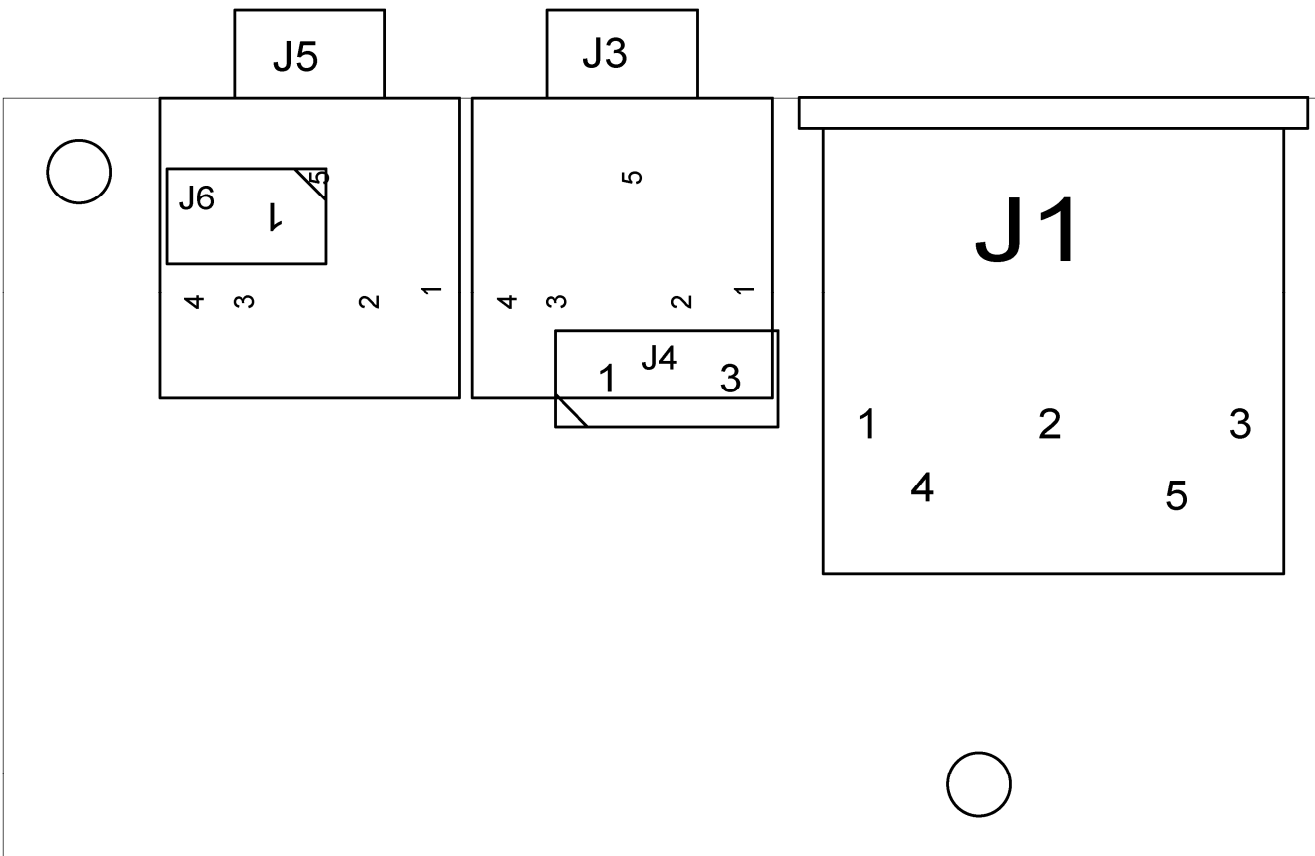
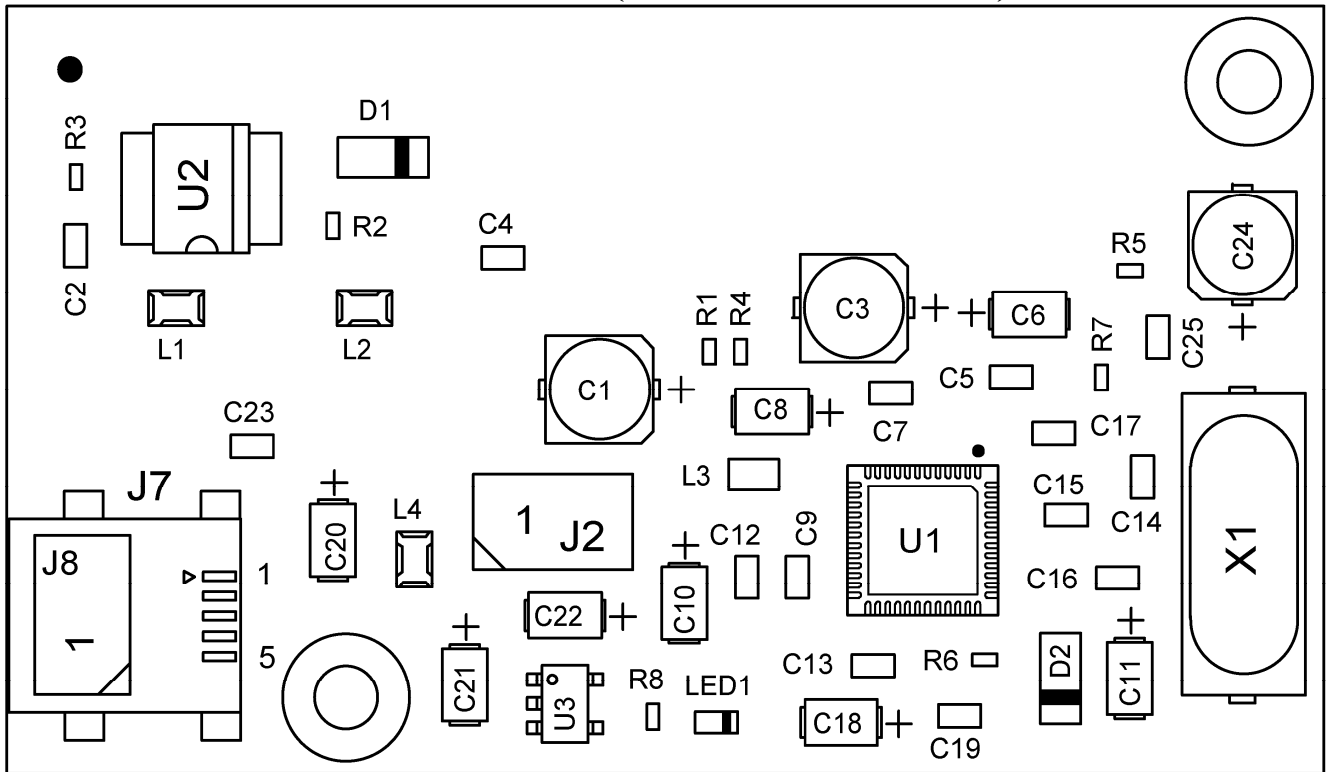
For a full list of available features and detailed MIDI implementation please refer to the SAM2695 datasheet.

Connectors Configuration

Name	Reference	Type	Description
MIDI IN	J1	5-pin DIN	Standard MIDI IN at 31.25kb/s
<i>MIDI IN</i>	J2	<i>1*2 (Not Mounted)</i>	<i>TTL MIDI IN at 31.25kb/s</i>
AUDIO OUT	J3	Mini Jack Stereo	Stereo Line Out (2Vpp Max)
<i>AUDIO OUT</i>	J4	<i>3*2 (Not Mounted)</i>	<i>Stereo Line Out (2Vpp Max)</i>
MIKE INPUT	J5	Mini Jack	Mike audio input(2Vpp Max)
<i>MIKE INPUT</i>	J6	<i>1*3 (Not Mounted)</i>	<i>Mike audio input(2Vpp max)</i>
USB PWR SUPPLY	J7	Mini USB B	Power Supply, +5V/500mA
<i>USB PWR SUPPLY</i>	J8	<i>1*2 (Not Mounted)</i>	<i>Power Supply, +5V/500mA</i>

Layout

Size: 0.16 dm² (52.50 mm x 30.50 mm)



Bill of Material

2695-EK.DSN

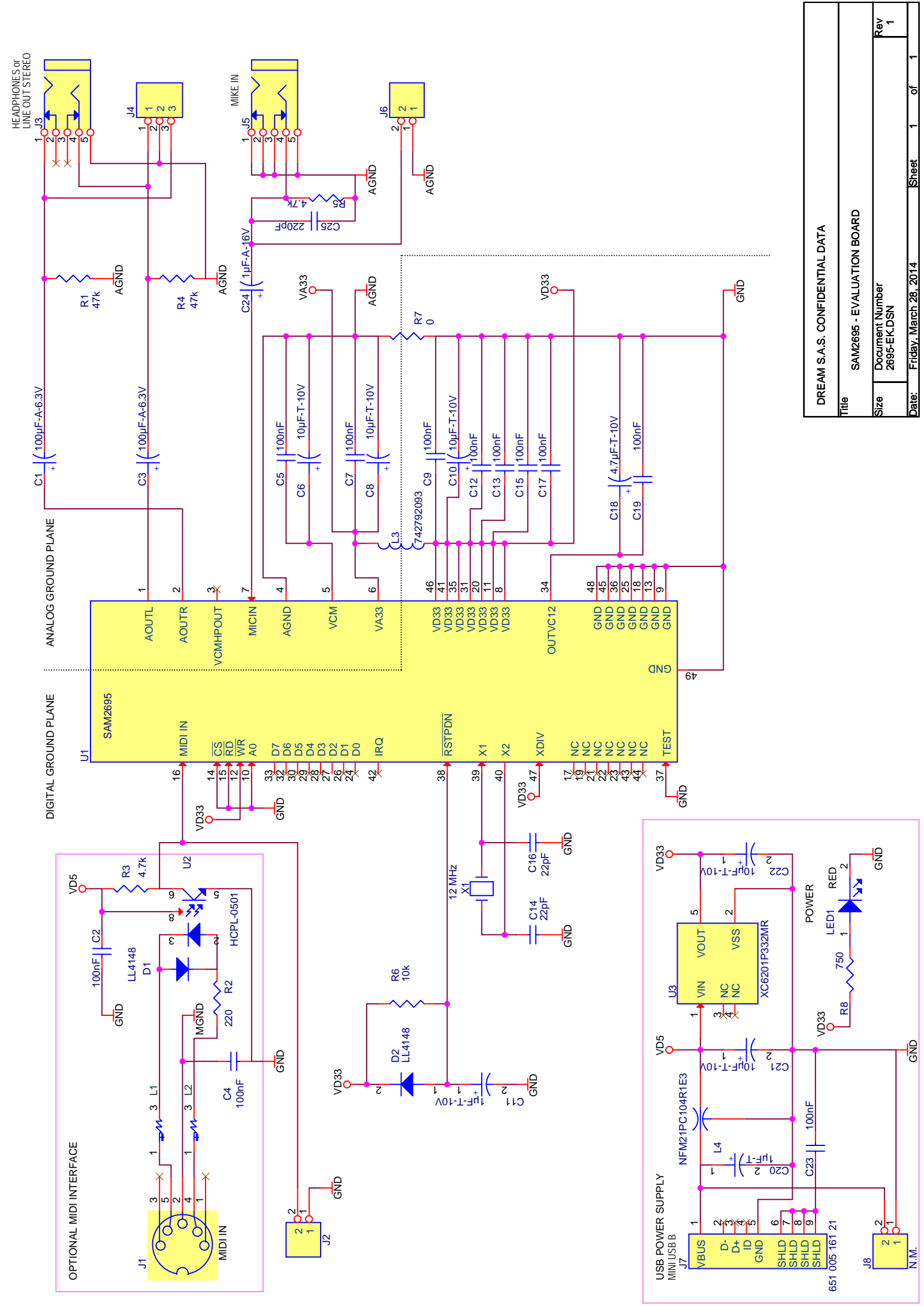
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Bill of Materials

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Item	Quantity	Reference	Part	Manufacturer	Designation
1	2	C1, C3	100µF-A-6.3V		
2	1	C24	1µF-A-16V		
3	11	C2, C4, C5, C7, C9, C12, C13, C15, C17, C19, C23	100nF		
4	5	C6, C8, C10, C21, C22	10µF-T-10V		
5	1	C11	1µF-T-10V		
6	2	C14, C16	22pF		
7	1	C18	4.7µF-T-10V		
8	1	C20	1µF-T		
9	1	C25	220pF		
10	2	D1, D2	LL4148		
11	1	J1	MIDI_DIN		
12	3	J2, J6, J8	N.M.		
13	2	J3, J5	JACK 3.5 STEREO	3E	15.427
14	1	J4	N.M.		
15	1	J7	651 005 161 21	WERI	651 005 161 21
16	1	LED1	TLMS1000-Vishay	VISHAY	TLMS1000-GS08
17	2	L1, L2	NFM21CC102R1H3	MURATA	NFM21CC102R1H3
18	1	L3	742792093	WURTH	742792093
19	1	L4	NFM21PC104R1E3	MURATA	NFM21PC104R1E3
20	2	R1, R4	47k		
21	1	R2	220		
22	2	R3, R5	4.7k		
23	1	R6	10k		
24	1	R7	0		
25	1	R8	750		
26	1	U1	SAM2695	DREAM	SAM2695
27	1	U2	HCPL-0501		
28	1	U3	XC6201P332MR	TOREX	XC6201P332MR
29	1	X1	12 MHz		



DREAM S.A.S. CONFIDENTIAL DATA			
Title	SAM2695 - EVALUATION BOARD		
Size	Document Number	Rev	1
Date:	Friday, March 28, 2014	Sheet	1 of 1

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