

Eval Board Name	SI5394A-A-EB
Revision	1.1

CreationDate	Proto Rev	Released
5/29/2018	1.00	1

End product must be RoHS compliant

NI	Quantity	Reference	Value	Rating	Voltage	Tolerance	Type	PCB Footprint	ManufacturerPN	Manufacturer
	17	C1 C2 C3 C4 C5 C7 C8 C9 C10 C15	1.0uF		6.3V	±10%	X5R	C0402 C0402L	C0402X5R6R3-105K	Venkel
	8	C11 C16 C18 C24 C26 C32 C34 C38	10uF		6.3V	±20%	X5R	C0603 C0603L	C0603X5R6R3-106M	Venkel
	13	C12 C13 C14 C19 C21 C22 C28 C29 C31 C35 C36 C37 C92	0.1uF		10V	±10%	X7R	C0402 C0402L	C0402X7R100-104K	Venkel
	8	C39 C40 C43 C45 C46 C50 C51 C81	0.1uF		16V	±20%	X7R	C0603	C0603X7R160-104M	Venkel
	14	C41 C42 C47 C49	1uF		16V	±10%	X7R	C0603	C0603X7R160-105K	Venkel
	6	C44 C62 C65 C71 C74 C83	4.7uF		10V	±20%	X7R	C1206	C1206X7R100-475M	Venkel
	6	C48 C63 C66 C75 C84 C88	10uF		25V	±20%	TANT	C6032	T491C106M025ZT	Kemet
	6	C64 C67 C70 C73 C82 C86	0.01uF		16V	±20%	X7R	C0603	C0603X7R160-103M	Venkel
	1	C79	1nF		50V	±5%	C0G	C0603	C0603C0G500-102J	Venkel
	1	C80	33uF		10V	±10%	TANT	C6032	T491C336K010AT	Kemet
	1	D10	SP0503BAHT	300mW	20V		TVS	SOT143-AKKK SOT143	SP0503BAHTG	Littlefuse
	3	D11 D12 D13	Green	20mA	3.4V		SMT, ChipLED	LED-HSMX-C170	HSMQ-C170	Avago Technologies
	3	D5 D7 D8	Blue	20mA	3.4V		SMT, ChipLED	LED-HSMX-C170	HSMR-C170	Avago Technologies
	1	FB1	22 Ohm	6000mA			SMT	L0805	BLM21PG220SN1	MuRata
	18	J1 J2 J3 J4 J5 J6 J7 J8 J9 J10 J11 J12 J13 J14 J15 J16 J25 J26	SMA				SMA	SMA-EDGE-3	142-0701-801	Johnson Components
	1	J17	HEADER 5x2				Header	CONN2X5	TSW-105-07-T-D	Samtec
	1	J21	USB Type B				USB	CONN-USB-B	292304-1	Tyco
	1	J22	5X2 Shrouded Header				Shrouded	CONN2X5-4W	5103309-1	Tyco
	5	JP1 JP2 JP3 JP4 JP13	Header 1x2 TH				Header	CONN1X2	TSW-102-07-G-S	Samtec
	1	JP5	HEADER 1x3				Header	CONN-1X3	TSW-103-07-T-S	Samtec
	11	JS1 JS2 JS3 JS4	Jumper Shunt				Shunt	SHUNT	SNT-100-BK-T	Samtec
	1	LB1	SI5394A-A-EB				POLYIMIDE, WHITE	PTL-14-477	LABEL-SI5394A-A-EB	Silabs
	4	MH1 MH6 MH7	4-40				SCREW	MH-125NP MH-125	NSS-4-4-01	Richco Plastic Co
	1	PCB1	SI5394-EB REV 1.0				BARE PCB	N/A	SI5394-EB REV 1.0	SiLabs

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	16	R1 R43 R44 R45 R56 R60 R61 R155 R156 R157 R158 R159 R160 R161 R162 R163	0	1A			ThickFilm	R0603 R0603L	CR0603-16W-000	Venkel
	8	R102 R103 R108 R114 R122 R123 R133 R140	10K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-1002F	Venkel
	5	R105 R106 R116 R119 R134	1.0	1/10W		±1%	ThickFilm	R0603	CR0603-10W-1R00F	Venkel
	4	R107 R109 R125	4.42K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-4421F	Venkel
	4	R110 R112 R126	9.53K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-9531F	Venkel
	5	R111 R113 R127 R138 R142	5.90K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-5901F	Venkel
	2	R117 R121	8.06	1/2W		±0.1%	±50PPM	R2010	TFCR2010-2W-C-8R06B	Venkel
	1	R128	11.5K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-1152F	Venkel
	1	R129	8.06K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-8061F	Venkel
	1	R130	5.36K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-5361F	Venkel
	1	R135	3.01	1/2W		±0.1%	±50PPM	R2010	TFCR2010-2W-C-3R01B	Venkel
	10	R18 R19 R26 R27 R34 R36 R40 R41 R144 R149	49.9	1/16W		±1%	ThickFilm	R0402 R0402L	CR0402-16W-49R9F	Venkel
	5	R2 R3 R4 R5 R12	0	2A			ThickFilm	R0805	CR0805-10W-000	Venkel
	14	R20 R22 R24 R28 R30 R32 R35 R38 R146 R147 R166 R168 R169 R170	0	1A			ThickFilm	R0402 R0402L	CR0402-16W-000	Venkel
	1	R48	100	1/10W		±1%	ThickFilm	R0603 R0603L	CR0603-10W-1000F	Venkel
	4	R65 R71 R73 R74	1K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-1001F	Venkel
	9	R66 R67 R70 R101 R104 R120 R124 R132 R139	10.0K	1/10W		±0.1%	±25PPM	R0603	ERA-3AEB103V	Panasonic
	1	R68	17.4K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-1742F	Venkel
	21	R7 R8 R9 R10 R11 R15 R16 R17 R49 R50 R51 R52 R53 R54 R55 R62 R63 R69 R72 R115 R154	2.49K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-2491F	Venkel

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	4	R99 R100 R118 R131	30.1	1/4W		±0.1%	±25PPM	R1206	TFCR1206-4W-E-30R1B	Venkel
	1	S1	SW PUSHBUTTON	50mA	12Vdc		Tactile	SW4N6.5X4.5-PB	101-0161-EV	Mountain Switch
	4	SO1 SO2 SO3 SO4	STANDOFF				STANDOFF		1902D	Keystone Electronics
	1	U1	Si5394				Timing	QFN44M7X7P0.5E5.3	Si5394A-A-GM	SiLabs
	1	U11	MAX8869	1A			LDO	TSSOP16N6.5P0.65E	MAX8869EUE50	Maxim
	1	U13	PCA9535CPW				I2C	TSSOP24N6.4P0.65	PCA9535CPW	NXP
	1	U15	TPS79501	500mA			LDO	DFN8N3.0P0.65E2.4X1.65	TPS79501DRBT	TI
	1	U2	PCA9517AD				DO NOT SUB	SO8N6.0P1.27	PCA9517AD,118	NXP
	1	U3	C8051F380				MCU	QFP48N9X9P0.5	CF380P0997AGQ	SiLabs
	1	U4	DS2411					SOJ6N4.45P1.27	DS2411P+	Maxim
	1	U5	AD8628		5V		OPAMP	SOT23-5N	AD8628AUJ-R2	Analog Devices
	2	U6 U7	ADG728		2.7-5.5V			TSSOP16N6.4P0.65	ADG728BRUZ	Analog Devices
	5	U8 U9 U10 U12 U14	TPS76201	100mA			LDO	SOT5N2.8P0.95	TPS76201DBV	TI
	1	Y1	CX3225SB48000				Quartz	XTAL4N3.2X2.5-CX3225SB	CX3225SB48000D0FPJC1	Kyocera

Not Installed Components

NI	Quantity	Reference	Value	Rating	Voltage	Tolerance	Type	PCB_Footprint	ManufacturerPN	Manufacturer
NI	5	C58 C59 C61 C93 C94	0.1uF		10V	±10%	X7R	C0402 C0402L	C0402X7R100-104K	Venkel
NI	1	C60	6.8pF		25V	±0.5pF	COG	C0402 C0402L	C0402COG2506R8D	Venkel
NI	2	C95 C96	1nF		50V	±5%	COG	C0402	C0402COG500-102J	Venkel
NI	1	C97	1.0uF		6.3V	±10%	X5R	C0402 C0402L	C0402X5R6R3-105K	Venkel
NI	9	D1 D2 D3 D4 D6 D14 D15 D16 D17	Blue	20mA	3.4V		SMT, ChipLED	LED-HSMX-C170	HSMR-C170	Avago Technologies
NI	1	D9	RED	25mA	1.9V		SMT, ChipLED	LED-HSMX-C170	HSMC-C170	Avago Technologies
NI	1	FB3	600 Ohm	1A			SMT	L0603	MPZ1608S601A	TDK Corporation
NI	2	J18 J19	HEADER 1x1				Header	HDR1X1	TSW-101-07-T-S	Samtec
NI	1	J20	CONN TRBLK 2	24A			TERM BLK	CONN-TB-1711026	1711026	PHOENIX CONTACT
NI	5	JP16 JP17 JP20 JP21 JP24	HEADER 1x3				Header	CONN-1X3	TSW-103-07-T-S	Samtec
NI	13	JP6 JP7 JP8 JP9 JP10 JP11 JP12 JP14 JP15 JP18 JP19 JP22 JP23	Header 1x2 TH				Header	CONN1X2	TSW-102-07-G-S	Samtec
NI	10	R21 R23 R25 R29 R31 R33 R37 R39 R165 R167	10K	1/16W		±1%	ThickFilm	R0402 R0402L	CR0402-16W-1002F	Venkel
NI	6	R42 R46 R47 R57 R58 R59	0	1A			ThickFilm	R0603 R0603L	CR0603-16W-000	Venkel

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NI	7	R6 R13 R14 R77 R78 R79 R80	0	2A			ThickFilm	R0805	CR0805-10W-000	Venkel
NI	5	R64 R83 R84 R85 R86	2.49K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-2491F	Venkel
NI	13	R89 R90 R91 R93 R97 R98 R143 R145 R148 R150 R151 R152 R164	0	1A			ThickFilm	R0402 R0402L	CR0402-16W-000	Venkel
NI	2	TP1 TP2	BLUE				Loop	TESTPOINT	151-205-RC	Kobiconn
NI	10	TP3 TP4 TP5 TP6 TP7 TP8 TP9 TP10 TP11 TP12	RED				Loop	TESTPOINT	151-207-RC	Kobiconn
NI	1	X1	26MHz				TCXO	OSC4N2.0X1.6-KT2016	KT2016A26000AGU33NAN	Kyocera