

Eval Board Name	SI5396J-A-EB
Revision	1.0

CreationDate	Proto Rev	Released
3/19/2019	5.00	0

End product must be RoHS compliant

NI	Quantity	Reference	Value	Rating	Voltage	Tolerance	Type	PCB_Footprint	ManufacturerPN	Manufacturer
	17	C7 C8 C9 C10 C15 C17 C20	1.0uF		6.3V	±10%	X5R	C0402 C0402L	C0402X5R6R3-105K	Venkel
	8	C24 C26 C32 C34 C38	10uF		6.3V	±20%	X5R	C0603 C0603L	C0603X5R6R3-106M	Venkel
	12	C19 C21 C22 C28 C29 C31 C35 C36 C37	0.1uF		10V	±10%	X7R	C0402 C0402L	C0402X7R100-104K	Venkel
	8	C45 C46 C50 C51 C81	0.1uF		16V	±20%	X7R	C0603	C0603X7R160-104M	Venkel
	14	C49 C52 C68	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%	COG	C0603	C0603COG500-102J	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
	4	D5 D6 D7 D8	Blue	20mA	3.4V		SMT, ChipLED	LED-HSMX-C170	HSMR-C170	Avago Technologies
	1	FB1	22 Ohm	6000mA			SMT	L0805	BLM21PG220SN1	MuRata
	1	HW1	SI5396J-A-EB				POLYIMIDE, WHITE	PTL-14-477	LABEL-SI5396J-A-EB	Silabs
	16	J1 J2 J3 J4 J5 J6 J7 J8 J9 J10 J11 J12 J13 J14 J15 J16	SMA				SMA	SMA-EDGE-3	142-0701-801	Johnson Components
	1	J17	HEADER 5x2				Header	CONN2X5	TSW-105-07-T-D	Samtec
	2	J18 J19	HEADER 1x1				Header	HDR1X1	TSW-101-07-T-S	Samtec
	1	J21	USB Type B				USB	CONN-USB-B	292304-1	Tyco
	1	J22	5X2 Shrouded Header				Shrouded	CONN2X5-4W	5103309-1	Tyco
	4	JP1 JP2 JP3 JP4	Header 1x2 TH				Header	CONN1X2	TSW-102-07-G-S	Samtec
	1	JP5	HEADER 1x3				Header	CONN-1X3	TSW-103-07-T-S	Samtec
	10	JS5 JS6 JS7 JS8	Jumper Shunt				Shunt	N/A SHUNT	SNT-100-BK-T	Samtec
	4	MH1 MH2 MH3 MH4	4-40				SCREW	MH-125NP MH-125	NSS-4-4-01	Richco Plastic Co
	1	PCB1	SI5396-EB REV 1.0				BARE PCB	N/A	SI5396-EB REV 1.0	Silabs
	16	R1 R46 R56 R57 R58 R59 R60 R155 R156 R157 R158 R159 R160 R161 R162 R163	0	1A			ThickFilm	R0603 R0603L	CR0603-16W-000	Venkel

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	8	R102 R103 R108 R114 R122 R123 R133 R140	10K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-1002F	Venkel
	5	R119 R134	1.0	1/10W		±1%	ThickFilm	R0603	CR0603-10W-1R00F	Venkel
	4	R136	4.42K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-4421F	Venkel
	4	R110 R112 R126 R137	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
	8	R27 R34 R36	49.9	1/16W		±1%	ThickFilm	R0402 R0402L	CR0402-16W-49R9F	Venkel
	4	R2 R3 R4 R5	0	2A			ThickFilm	R0805	CR0805-10W-000	Venkel
	10	R28 R30 R32 R35 R38 R166 R168	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	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	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
	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	SO4	STANDOFF				STANDOFF		1902D	Keystone Electronics
	1	U11	MAX8869EUE50+	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	U16	SI5396J				Timing	QFN44M7X7P0.5E5.3	SI5396J-A-GM	SiLabs
	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

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	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
Not Installed Components										
NI	Quantity	Reference	Value	Rating	Voltage	Tolerance	Type	PCB_Footprint	ManufacturerPN	Manufacturer
NI	6	C58 C59 C61 C92 C93 C94	0.1uF		10V	±10%	X7R	C0402 C0402L	C0402X7R100-104K	Venkel
NI	1	C60	6.8pF		25V	±0.5pF	C0G	C0402 C0402L	C0402C0G2506R8D	Venkel
NI	2	C95 C96	1nF		50V	±5%	C0G	C0402	C0402C0G500-102J	Venkel
NI	1	C97	1.0uF		6.3V	±10%	X5R	C0402 C0402L	C0402X5R6R3-105K	Venkel
NI	8	D1 D2 D3 D4 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	1	J20	CONN TRBLK 2	24A			TERM BLK	CONN-TB-1711026	1711026	PHOENIX CONTACT
NI	2	J25 J26	SMA				SMA	SMA-EDGE-3	142-0701-801	Johnson Components
NI	5	JP16 JP17 JP20 JP21 JP24	HEADER 1x3				Header	CONN-1X3	TSW-103-07-T-S	Samtec
NI	14	JP6 JP7 JP8 JP9 JP10 JP11 JP12 JP13 JP14 JP15 JP18 JP19 JP22 JP23	Header 1x2 TH				Header	CONN1X2	TSW-102-07-G-S	Samtec
NI	2	R144 R149	49.9	1/16W		±1%	ThickFilm	R0402 R0402L	CR0402-16W-49R9F	Venkel
NI	10	R29 R31 R33 R37 R39 R165 R167	10K	1/16W		±1%	ThickFilm	R0402 R0402L	CR0402-16W-1002F	Venkel
NI	6	R42 R43 R44 R45 R47 R61	0	1A			ThickFilm	R0603 R0603L	CR0603-16W-000	Venkel
NI	8	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	17	R89 R90 R91 R93 R97 R98 R143 R145 R146 R147 R148 R150 R151 R152 R164 R169 R170	0	1A			ThickFilm	R0402 R0402L	CR0402-16W-000	Venkel
NI	2	TP1 TP2	BLUE				Loop	TESTPOINT	151-205-RC	Kobiconn

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		TP6 TP7 TP8 TP9 TP10 TP11 TP12								
NI	10		RED				Loop	TESTPOINT	151-207-RC	Kobiconn
NI	1	X1	26MHz				TCXO	OSC4N2.0X1.6-KT2016	KT2016A26000AGU33NAN	Kyocera
NI	1	Y1	48MHz Crystal				Quartz	XTAL4N3.2X2.5-7M48072002	7M48072002	TXC