

Eval Board Name	SI82EX-FX_NB-SOI	C16_EVB-SI82E39ABC
Revision	1.1	

CreationDate	Proto Rev	Released
5/12/2023	1.00	0

End product must be RoHS compliant

NI	Quantity	Reference	Value	Rating	Voltage	Tolerance	Type	PCB_Footprint	ManufacturerPN	Manufacturer
	10	C1 C2 C4 C11 C12 C14 C23 C25 C27 C29	0.1uF		50V	±10%	X7R	C0603	C0603X7R500-104K	Venkel
	1	C20	1uF		10V	±10%	X7R	C0603	C0603X7R100-105K	Venkel
	4	C21 C30 C31 C32	0.1uF		10V	±10%	X7R	C0402 C0402L	C0402X7R100-104K	Venkel
	4	C22 C24 C26 C28	1uF		50V	±10%	X7R	C0805	CL21B105KBFNNNE	Samsung
	2	C33 C34	68pF	Y2	250V	±10%	Y2	C1808	GA342D1XGF680JY02L	MuRata
	2	C5 C15	10uF		50V	±10%	X5R	C0805	GRM21BR61H106KE43L	Murata
	2	C7 C17	1nF		50V	±1%	COG	C0805	C0805C0G500-102F	Venkel
	2	C8 C18	1uF		25V	±10%	X7R	C0603 C0603L	GCM188R71E105KA49	MuRata
	2	C9 C19	0.1uF		25V	±10%	X7R	C0603	C0603X7R250-104K	Venkel
	1	D1	US1K	1.0A	800V		Switch, Ultra Fast	DO-214AC	US1K-13-F	Diodes Inc.
	2	D2 D3	ES1B	1.0A	100V		Fast	DO-214AC	ES1B	Diodes Inc.
	1	D4	5.6V	500mW	5.6V	5%	Zener	SOD-123	SZMMSZ5232BT1G	On Semi
	3	D5 D8 D9	GREEN	20mA				LED-0603	LTST-C193TGKT-5A	LITE-ON TECHNOLOGY CORP
	2	D6 D7	10V	500mW	10V	5%	Zener	SOD-123	MMSZ4697T1G	On Semi
	3	J1 J2 J4	CONN TRBLK 2				TERM BLK	CON1X2-1725656	1725656	PHOENIX CONTACT
	6	JP1 JP2 JP3 JP4 JP5 JP7	HEADER 1X2				Header	CONN1X2	TSW-102-07-T-S	Samtec
	2	JP10 JP11	CONN TRBLK 3				TERM BLK	CON1X3-1725669	1725669	PHOENIX CONTACT
	3	JP6 JP8 JP9	HEADER 1x3				Header	CONN-1X3	TSW-103-07-T-S	Samtec
	8	JS1 JS2 JS3 JS4 JS5 JS7 JS8 JS9	Jumper Shunt				Shunt	SHUNT	SNT-100-BK-T	Samtec
	1	LB1	OPN: SI82E39ABC-EVB				POLYIMIDE, WHITE	PTL-14-717	LABEL-SI82E39ABC-EVB	Skyworks
	1	M1	NTR4171PT1G	-3.5A	-30V		P-CHNL	SOT23-GSD	NTR4171PT1G	ON Semiconductor
	2	M2 M3	FDN5618P	1.25A	60V		P-CHNL	SOT23-GSD	FDN5618P	Fairchild
	4	MH1 MH2 MH3 MH4	SCREW/STANDOFF				HDW	MH-125NP	NSS-4-4-01/2397	VARIOUS
	1	PCB1	SI82Ex-Fx SO16N EVB REV 1.0				BARE PCB	N/A	SI82Ex-Fx SO16N EVB REV 1.0	Skyworks
	1	R1	0.5	1/4W	500V	±1%	ThickFilm	R0805	LCR0805-R500F	Venkel
	1	R10	4.99K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-4991F	Venkel
	1	R11	200K	1/4W		20%	TRIM	POT-PVG3A	PVG3A204C01R00	MuRata
	1	R19	300	1/16W		±5%	ThickFilm	R0603 R0603L	CR0603-16W-301J	Venkel
	3	R2 R7 R16	0	1A			ThickFilm	R0603 R0603L	CR0603-16W-000	Venkel
	1	R20	976	1/4W		±1%	ThickFilm	R1206	CR1206-4W-9760F	Venkel
	2	R23 R24	887	1W		±1%	ThickFilm	R2512	ERJ-1TNF8870U	Panasonic Electronic Components
	2	R25 R27	100K	1/10W		±5%	ThickFilm	R0603	CR0603-10W-104J	Venkel
	2	R26 R28	1K	1/10W		±5%	ThickFilm	R0603	CR0603-10W-1001J	Venkel
	2	R29 R30	2K	1/10W		±1%	ThickFilm	R0603	CR0603-10W-2001F	Venkel
	2	R3 R4	0	1A			ThickFilm	R0402 R0402L	CR0402-16W-000	Venkel
	2	R5 R12	4.7	1/10W		±5%	ThickFilm	R0805	CR0805-10W-4R7J	Venkel
	2	R6 R15	1.2	1/10W		±5%	ThickFilm	R0805	CR0805-10W-1R2J	Venkel

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	1	R8	10K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-1002F	Venkel
	2	S1 S2	SW PUSHBUTTON	50mA	12VDC		Tactile	SW-PB-TL3302	TL3302AF180QJ	E-SWITCH
		TP1 TP2 TP3 TP4 TP5 TP6 TP8 TP9 TP11 TP12 TP13 TP14 TP15 TP16 TP17 TP18 TP19								
	20	TP20 TP21 TP22	TESTPOINT				TESTPOINT	TP_MINIATURE_SMT	5019	Keystone
	3	TP23 TP26 TP29	RED				Loop	TESTPOINT	151-207-RC	Kobiconn
	2	TP24 TP27	WHITE				Loop	TESTPOINT	151-201-RC	Kobiconn
	3	TP25 TP28 TP30	BLACK				Loop	TESTPOINT	151-203-RC	Kobiconn
	1	U1	SI82E39ABC	3750 VRMS	30V		ISODriver	SO16N6.0P1.27	SI82E39ABC-IS1	Skyworks
	1	U2	SN74LVC2G14DBVR		5V		Inverter	SOT6N2.8P0.95	SN74LVC2G14DBV	TI

Not Installed Components

NI	Quantity	Reference	Value	Rating	Voltage	Tolerance	Type	PCB_Footprint	ManufacturerPN	Manufacturer
		C3 C6 C10 C13								
NI	5	C16	0.01uF		25V	±10%	X7R	C0402	C0402X7R250-103K	Venkel
NI	1	J3	CONN TRBLK 2				TERM BLK	CON1X2-1725656	1725656	PHOENIX CONTACT
NI	1	JS6	Jumper Shunt				Shunt	SHUNT	SNT-100-BK-T	Samtec
		R13 R17 R31 R32								
NI	4	R13 R17 R31 R32	0	1A			ThickFilm	R0603 R0603L	CR0603-16W-000	Venkel
NI	2	R14 R18	20K	1/4W		20%	TRIM	POT-PVG3A	PVG3A203C01R00	MuRata
NI	1	R9	10K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-1002F	Venkel
NI	2	TP7 TP10	TESTPOINT				TESTPOINT	TP_MINIATURE_SMT	5019	Keystone