

Eval Board Name	SI34061-EVB-EXT-12V
Revision	1.7

CreationDate	Proto Rev	Released
1/16/2020	2.00	1

End product must be RoHS compliant

NI	Quantity	Reference	Value	Rating	Voltage	Tolerance	Type	PCB_Footprint	ManufacturerPN	Manufacturer	
	4	C1 C7 C10 C27	1nF		2000V	±5%	X7R	C1206	C1206C102JGRACU	Kemet	
	1	C12	47uF		100V	±20%	Alum_Elec	C3.5X8MM-RAD	ECA2AM470	Panasonic	
	2	C13 C14	1uF		100V	±10%	X7R	C1210	C1210X7R101-105K	Venkel	
	1	C15	0.1uF		100V	±10%	X7R	C0603	C0603X7R101-104K	Venkel	
	3	C17 C18 C32	22uF		16V	±20%	X5R	C1206	C1206C226M4PAC7800	KEMET	
	1	C19	330uF		16V	±20%	Alum_Elec	C3.5X8MM-RAD	ECA-1CM331	Panasonic	
	5	C2 C3 C4 C5 C33	0.01uF		100V	±10%	X7R	C0603	C0603X7R101-103K	Venkel	
	1	C21	22nF		16V	±20%	X7R	C0603	C0603X7R160-223M	Venkel	
	1	C22	1.5nF		100V	±10%	X7R	C0805	C0805X7R101-152K	Venkel	
	1	C23	1uF		25V	±10%	X5R	C0603	C0603X5R250-105K	Venkel	
	2	C24 C26	220nF		16V	±5%	X7R	C0603	C0603C224J4RACTU	Kemet	
	1	C25	0.1uF		100V	±10%	X7R	C0805	C0805X7R101-104K	Venkel	
	1	C29	0.1uF		10V	±10%	X7R	C0603 C0603L	C0603X7R100-104K	Venkel	
	1	C30	4.7nF		25V	±2%	C0G	C0805	C0805C0G250-472G	Venkel	
	1	C31	2.2nF		16V	±2%	C0G	C0805	C0805C0G160-222G	Venkel	
	1	C34	1.0uF		16V	±10%	X5R	C0402	C0402X5R160-105KN	Venkel	
	1	C35	0.01uF	-55°C to +150°C	25V	±10%	X8R	C0603 C0603L	C0603C103K3HACAUTO	KEMET	
	2	C6 C11	0.01uF		100V	±10%	X7R	C0805	C0805X7R101-103K	Venkel	
	2	D1 D10	S1B	1.0A	100V		Single	DO-214AC	S1B	Fairchild	
	1	D11	1N4148W	2A	100V		Fast	SOD123	1N4148W	Diodes Inc	
	2	D12 D14	GREEN	30mA	2.2V		SMT	LED-0805-K	LTST-C170GKT	LITE_ON INC	
	9	D7 D8 D9 D13	PDS5100	5A	100V		Schottky	POWERDI-5	PDS5100H-13	Diodes Inc.	
	4	FB4	600 Ohm	1500mA			SMT	L1206	BLM31PG601SN1	MuRata	
	2	J1 J2	RJ-45				Receptacle	RJ45-95001	095501-2881	MOLEX	
	1	J3	Power Jack	1A			BARREL	CONN-3-PWR	ADC-002-1	Adam Tech	
	2	J4 J5	BND_POST	15A			BANANA	BANANA-JACK	101	ABBATRON HH SMITH	
	1	L1	500 uH	0.15 ohm	80VDC		Ethernet	IND-SRF0905	SRF0905-501Y	Bourns	
	1	L2	3.3uH	1.5A		±20%	Unshielded	IND-8400	84332C	Murata	
	1	L3	0.16uH	16A		±20%	Shielded	IND-XAL50xx	XAL5030-161ME	Coilcraft	
	1	LB1	LABEL-Si34061-EVB-EXT-BOM-R1.7-12V				POLYIMIDE, WHITE	PTL-14-717	LABEL-Si34061-EVB-EXT-BOM-R1.7-12V		Skyworks
	4	MH4	4-40				SCREW	MH-125 MH-125NP	NSS-4-4-01	Richco Plastic Co	
	1	PCB1	Si34061-EVB-EXT REV 1.6				BARE PCB	N/A	Si34061-EVB-EXT REV 1.6		Skyworks
	1	Q1	SQJ476EP-T1	23A	100V		N-CHNL	POWER56	SQJ476EP-T1_GE3	Vishay	
	8	R7 R8 R9	75	1/16W		±0.5%	ThinFilm	R0603	RR0816Q-750-D	Susumu	
	1	R10	78.7K	1/8W		±1%	ThickFilm	R0805	RC0805FR-0778K7L	Yageo	
	1	R12	10	1/4W		±1%	ThickFilm	R1206	CR1206-4W-10R0F	Venkel	
	1	R13	10	1/4W		±0.1%	±25PPM	R0805	PFC-W0805LF-03-10R0-B	TT Electronics/IRC	
	1	R14	95.3K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-9532F	Venkel	
	1	R15	1K	1/10W		±1%	ThickFilm	R0603	CR0603-10W-1001F	Venkel	
	2	R16 R18	10.0	1/16W		±1%	ThickFilm	R0603	CR0603-16W-10R0F	Venkel	
	2	R17 R22	24K	1/10W		±1%	ThickFilm	R0603	ERJ-3EKF2402V	Panasonic	

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	1	R19	33.2	1/16W		±1%	ThickFilm	R0603	CR0603-16W-33R2F	Venkel
	1	R20	23.7	1/16W		±1%	ThickFilm	R0603	CR0603-16W-23R7F	Venkel
	1	R21	24.9K	1/10W		±1%	ThickFilm	R0603	CR0603-10W-2492F	Venkel
	1	R23	0	1A			ThickFilm	R0603 R0603L	ERJ-3GEY0R00V	Panasonic
	1	R24	0.1	1W		±1%	ThickFilm	R1206	ERJ-8BWFR100V	Panasonic
	1	R25	3.24K	1/8W		±1%	ThickFilm	R0805	CRCW08053K24FKEA	Vishay
	1	R26	1K	1/8W		±1%	ThickFilm	R0805	CR0805-8W-1001F	Venkel
	1	R27	4.7K	1/10W		±1%	ThickFilm	R0603	CR0603-10W-4701F	Venkel
	1	R28	36.5K	1/10W		±1%	ThickFilm	R0805	CR0805-10W-3652F	Venkel
	2	R29 R31	0	2A			ThickFilm	R0805	CR0805-10W-000	Venkel
	1	R32	4.12K	1/8W		±1%	ThickFilm	R0805	CR0805-8W-4121F	Venkel
	1	R33	0.3	1/2W		±1%	ThickFilm	R1206	LCR1206-R300F	Venkel
	1	R34	3	1/8W		±1%	ThickFilm	R0805	CR0805-8W-3R00FT	Venkel
	1	R5	845K	1/10W		±1%	ThickFilm	R0603 R0603L	ERJ-3EKF8453V	Panasonic
	4	SO4	STANDOFF				STANDOFF		2397	SPC Technology
	1	SW1	SW_SLIDE_2POS	0.5A @ 12VDC			SLIDE	SW-SPDT-NK236H	NK236H	Apem Inc.
	1	T1	7490220121	350uH			Ethernet	ETH-7490220121	7490220121	Wurth
	1	T2	LDT1026-50R	30W	12V		FLYBACK	XFMR-LDT1020-50	LDT1026-50R	LinkCom
	1	T3	1200uH	none	1500V	none		XFMR-PA0184NL	PA0184NL	Pulse Engineering
	2	TP5 TP6	RED				LOOP	TESTPOINT	5000	Keystone
	7	TP12 TP15 TP18	BLACK				LOOP	TESTPOINT	5001	Keystone
	1	U1	NVMF55C680NLT1G	21A	60V		N-CHNL	POWER56	NVMF55C680NLT1G	ON Semi
	1	U2	Si34061					QFN24M5X5P0.65E3.1	Si34061	Skyworks
	1	U3	SIR632DP-T1	29A	150V		N-CHNL	POWER56	SIR632DP-T1-RE3	Vishay
	1	U4	VO618A-3X017T					SO4N10.16P2.54-AKEC	VO618A-3X017T	Vishay
	1	U5	TLV431ASN1T1G		16V		SHUNT	TLV431-DBZ	TLV431ASN1T1G	ON Semi

Not Installed Components

NI	Quantity	Reference	Value	Rating	Voltage	Tolerance	Type	PCB_Footprint	ManufacturerPN	Manufacturer
NI	1	C16	100pF		200V	±5%	NP0 HIGH Q	C0805	C0805HQN201-101J	Venkel
NI	1	C28	470pF		25V	±20%	X7R	C0402	C0402X7R250-471M	Venkel
NI	1	C36	0.01uF		100V	±10%	X7R	C0805	C0805X7R101-103K	Venkel
NI	1	D15	SMAJ58A	400W	58V		GP	DO-214AC	SMAJ58A	Littelfuse
NI	2	R11 R35	100	1/10W		±1%	ThickFilm	R0805	CR0805-10W-1000F	Venkel
NI	1	R30	1K	1/10W		±1%	ThickFilm	R0603	CR0603-10W-1001F	Venkel
NI	4	TP4	BLACK				Loop	TESTPOINT	151-203-RC	Kobiconn
NI	5	TP16 TP17	BLACK				LOOP	TESTPOINT	5001	Keystone