

Eval Board Name	IST-A0081
Revision	2.0

CreationDate	Proto Rev	Released
12/5/2016	20.00	0

NI	Quantity	Reference	Value	Rating	Voltage	Tolerance	Type	PCB Footprint	ManufacturerPN	Manufacturer
	2	C1 C2	220pF		50V	±10%	X7R	C0402	C0402X7R500-221K	Venkel
	1	C10	330pF	X1Y1	760VAC	±10%	Disc	C8.4X5.7P9.5-CER	440LT33-R	Vishay
	1	C11	22pF		50V	±10%	C0G	C0402	C0402C0G500-220KNE	Venkel
	1	C12	4.7uF		6.3V	±20%	X5R	C0402 C0402L	C0402X5R6R3-475MNP	Venkel
	1	C13	10uF		6.3V	±20%	X5R	C0402	C0402X5R6R3-106MNP	Venkel
	1	C16	0.056uF		250VAC	±10%	X7R	C2220	GA355XR7GB563KW06L	Murata
	2	C3 C4	6.8uF		400V	±20%	Alum_Elec	C5X10MM-RAD	EKXG401ELL6R8MJ16S	United Chemi-Con
	2	C5 C8	1.0uF		16V	±10%	X5R	C0402	C0402X5R160-105KN	Venkel
	2	C6 C7	820uF		6.3V	±20%	Alum_Elec	C3.5X8MM-RAD	RL80J821MDN1	NICHICON
	1	C9	0.47uF		50V	±10%	X7R	C0805	C0805X7R500-474KNE	Venkel
	1	CP1	Top				Plastic Cover		Custom Specification	Custom Specification
	1	CP2	Bottom				Plastic Cover		Custom Specification	Custom Specification
	1	D1	GREEN	5mA				LED-0603	SML-LXFP0603SUGCTR	LUMEX INC
	1	D2	RED	5mA				LED-0603	SML-LXFP0603SIC-TR	LUMEX INC
	1	D3	MURS160-13-F	1.0A	600V		SINGLE	DO-214AA	MURS160-13-F	Diodes Inc.
	1	D4	SMAJ90A	400W	90V		TVS	DO-214AC	SMAJ90A	Littlefuse
	1	D5	SBR10U45SP5	10A	45V		Super Barrier	POWERDI-5	SBR10U45SP5-13	Diodes Inc.
	1	D6	1N4148W	300mA	100V		Single	SOD-123	1N4148W-7-F	Diodes Inc.
	1	D9	0.31V	1A	30V		Schottky	POWERDI-123	DFLS130L-7	Diodes Inc.
	1	DA1	MMBD4148CC	200mA	100V		Dual	SOT23-AAK	MMBD4148CC	Fairchild
	1	DA2	RH06-T	0.5A	600V		Bridge Rectifier	MiniDIP4	RH06-T	Diodes Inc.
	1	DF1	Diffuser Plastic				Plastic		Custom Plastic	NA
	1	F1	06970500	0.5A	250V		Slo-Blo	FUSE-RST	RST500-BULK	BEL FUSE INC
	1	J1	2mm-1X6	2A	100V		Socket	CONN-1X6-2MM-JST	B6B-PH-K-S(LF)(SN)	JST
	1	L1	100uH	0.28A		±10%	UnShielded	IND-ME3220	ME3220-104KL	Coilcraft
	1	L2	1uH	1.4A		±20%	Shielded	IND-XFL3012	XFL3012-102MEB	Coilcraft
	1	L3	2.2uH	1.48A		±20%	Shielded	IND-NR301X	NR3015T2R2M	Taiyo Yuden
	1	LB1	OPN: RD-0051-0201				Transparent Sticker		LABEL-RD-0051-0201	Silabs
	2	LP1 LP2	LIGHT PIPE				LIGHT PIPE	LP-3.9mmx25.4mm	PLP5-2-1000	BIVAR INC.
	3	MH10 MH13								
	3	MH14	Phillips Screw				Phillips Screw		Generic	Generic
	1	MH15	Phillips Screw				Phillips Screw		90116A010	McMaster-Carr
	1	MH16	Phillips Screw				Phillips Screw		91775A648	McMaster-Carr
	2	MH17 MH18	Phillips Screw				Phillips Screw		99461A735	McMaster-Carr
	2	MH8 MH9	Phillips Screw				Phillips Screw		90116A110	McMaster-Carr
	1	PC1	Preassembled Cordset				Preassembled Cordset		S7560	HEYCO
	2	Q1 Q2	FDV303N	680mA	25V		N-CHNL	SOT23-GSD	FDV303N	Fairchild
	1	Q3	STU4N80K5	3A	800V		N-CHNL	TO-251	STU4N80K5	ST Micro
	2	R1 R2	845K	1/4W		±1%	ThickFilm	R1206	CR1206-4W-8453FT	Venkel
	2	R11 R12	240	1/16W		±5%	ThickFilm	R0402	CR0402-16W-241JT	Venkel
	2	R13 R18	49.9	1/4W		±1%	ThickFilm	R1206	CR1206-4W-49R9FT	Venkel

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	1	R14	10	1W		±5%	WW	RES650-CW001 RES650-CW001-VERT	CW00110R00JE12	Vishay
	1	R15	10M	1/4W		±1%	ThickFilm	R1206	CR1206-4W-1005F	Venkel
	1	R16	4.7K	1/16W		±5%	ThickFilm	R0402 R0402L	CRS0402-16W-472JT	Venkel
	1	R17	137K	1/16W		±1%	ThickFilm	R0402	CR0402-16W-1373F	Venkel
	1	R19	2.49K	1/16W		±1%	ThickFilm	R0402	CR0402-16W-2491F	Venkel
	1	R20	40.2K	1/16W		±1%	ThickFilm	R0402	CR0402-16W-4022F	Venkel
	1	R21	30.1K	1/16W		±1%	ThickFilm	R0402	CR0402-16W-3012FT	Venkel
	1	R22	0.5	1/4W		±1%	ThickFilm	R1206	RL1206FR-070R5L	Yageo
	1	R23	23.2K	1/16W		±1%	ThickFilm	R0402	CR0402-16W-2322FT	Venkel
	4	R3 R4 R7 R8	1K	1/16W		±1%	ThickFilm	R0402 R0402L	CR0402-16W-1001F	Venkel
	1	R5	0.001	1.5W		±1%	ThickFilm	R2010	CSNL2010FT1L00	Stackpole Electronics Inc.
	1	R6	0	2A			ThickFilm	R0805	CR0805-10W-000	Venkel
	3	R9 R10 R24	10K	1/16W		±5%	ThickFilm	R0402	CR0402-16W-103J	Venkel
	1	RL1	8-1393239-5	16A	5V		SPDT	RLY-RT314F05	RT314F05	TE CONNECTIVITY
	1	RT1	RING TERMINAL				HDW		7113K23	McMaster-Carr
	2	S1 S2	Socket				Socket		Custom	Custom
	1	S3	Socket				Socket		Custom	Custom
	1	SC1	PUSH BUTTON CAP				Switch Cap		BTN-K02-20	C&K COMPONENTS
	1	T1	RLTI-1072					XFMR-RLTI-1072	RLTI-1072	RENCO ELECTRONICS
	1	U1	UCC28700DBV					SOT6N2.8P0.95	UCC28700DBV	TI
	1	U2	LM3671MF-3.3	600mA	3.3V		Buck	SOT5N2.8P0.95	LM3671MF-3.3/NOPB	TI
	1	W10	White 14 AWG Wire 2				Wire		Wire 2	General Specification
	1	W7	Green 14 AWG Wire 3				Wire		Wire 3	General Specification
	1	W8	Green 14 AWG Wire 4				Wire		Wire 4	General Specification
	1	W9	Black 14 AWG Wire 1				Wire		Wire 1	General Specification
	1	WA1	FLAT WASHER M2				HDW		91116A240	McMaster-Carr

Not Installed Components

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NI	1	C14	33nF		16V	±10%	X5R	C0603	C0603X5R160-333KNE	Venkel
NI	1	C15	150nF		16V	±5%	X7R	C0603	C0603X7R160-154JNE	Venkel
NI	2	H1 H2	HDR_1x8				Header	CONN1X8-1.27	GRPBO81VWVN-RC	Sullins Connector Solutions
NI	1	H3	HDR_1X4				Header	CONN1X4-1.27	GRPBO41VWVN-RC	Sullins Connector Solutions
NI	2	MH1 MH2	AC RCPT				AC_RCPT	AC_RCPT	601-1-00188	SILU HASO
NI	3	MH19 MH20 MH21	Slotted Screw				Slotted Screw		91800A032	McMaster-Carr