

Board Name	SAT0021
Project Details	E3
Due Date	08/26/2013
QTY	10
JOB NUMBER	120313
CUST. CONTACT	Ajinder Singh
KS ID	13920

- CUST PROVIDED
- DNI
- SPECIAL INSTRUCTIONS
- HARDWARE
- TBD

BOM TITLE BAR

- Leaded Process
- ROHS Compliant Process

CERAMIC CAPACITORS

STD	0201	0402	0603	0805	1206	1210	mils
EIA	0603	1005	1608	2012	3216	3225	mm

TANTALUM CAPACITORS

STD	TANT_A	TANT_B	TANT_C	TANT_D	TANT_E	TANT_E	TANT_R	TANT_Z	mils
EIA	3.2x1.6	3.5x2.8	6.0x3.2	7.3x4.3	7.2x6.0	7.3x4.3	2.0x1.2	2.0x1.25	mm

SAME FOOTPRINT, VARIABLE HEIGHT

TANT_A & TANT_P
TANT_B & TANT_T
TANT_D,E,V, & X

SOLID TANTALUM CHIP CAPACITORS (ORANGE)

CASE	A	B	C	G	H	D	M	R
mm	3.7x1.8	4.0x2.8	7.1x3.2	5.2x3.65	5.2x4.6	7.5x4.3	3.3x2.7	7.2x6.0

CAPACITORS CONVERSION EXAMPLE

uF	nF	pF
0.001	1	1000
0.022	22	22000

RESISTORS CONVERSION EXAMPLE

Ω	kΩ	MΩ
1000	1k	0.001M
47000	47k	0.047M

NOTES & INSTRUCTIONS

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REVIEWED

By ARanpariya at 3:23 pm, Aug 15, 2013

Date

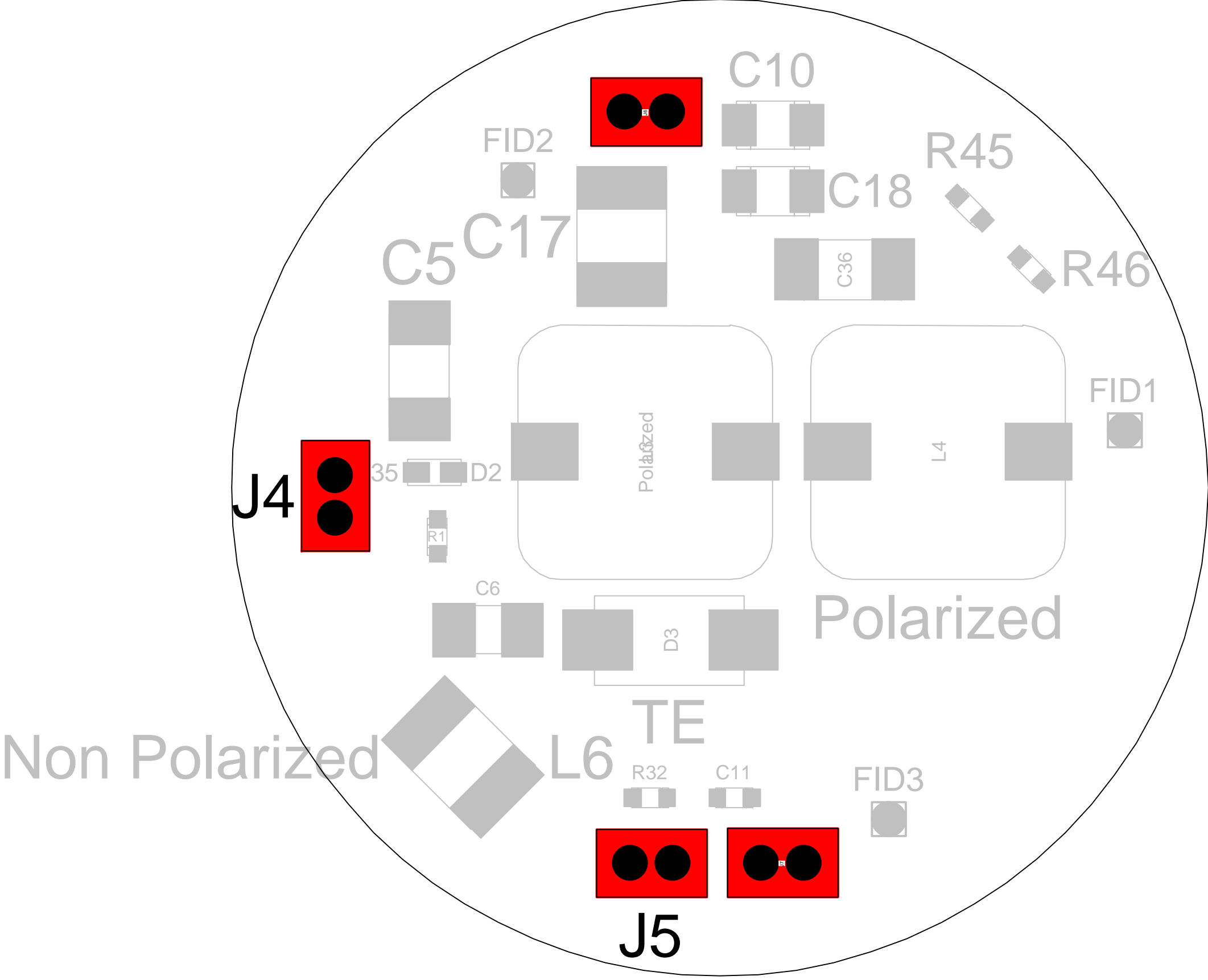
8/13/2013

KS Revision No

1.0

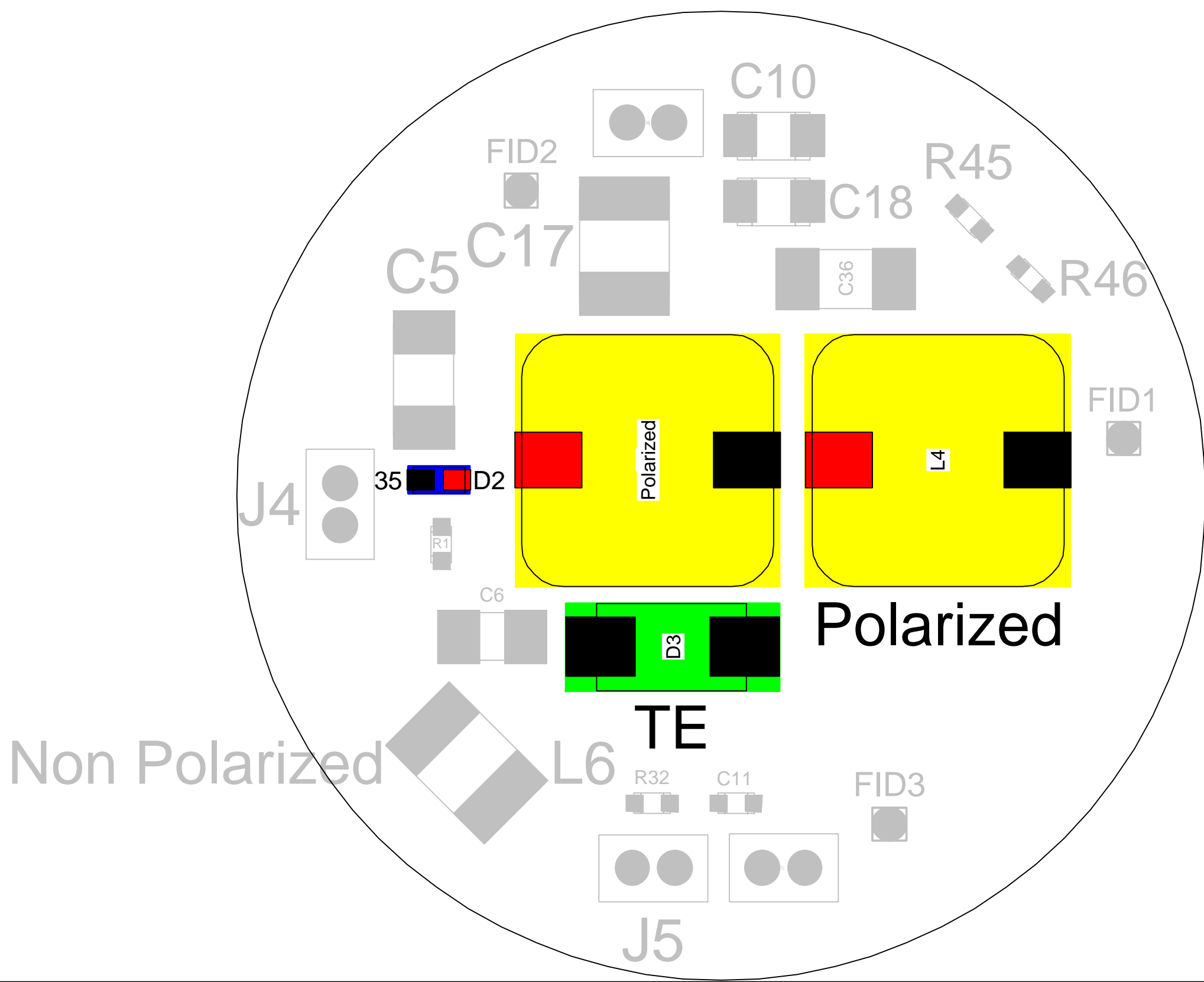
LINE NO.	KS PART NUMBER	CUSTOMER PART NUMBER	QTY	VALUE	DESIGNATORS	PKG/ CASE	T.COE FF/ PWR	TOL	VOLT RATED	DESCRIPTION	DISTRIBUTOR	DIST P/N	MANUFACTURER	MNFR. PART #	LOT NO
1	22444	B 7	1	0.1µF	C35	0402	X7R	10	50V	Capacitors	Digi-Key	445-5932-2-ND	TDK Corporation	C1005X7R1H104K	K10000050190
2	11299	B 7	1	100pF	C11	0402	C0G	5	50V	Capacitors	Digi-Key	311-1024-2-ND	Murata Electronics North	GRM1535C1H101JDD5D	K10000049180
3	27506	B 14	1	47000pF	C29	0402	X7R	10	50V	Capacitors	Digi-Key	445-7336-1-ND	TDK Corporation	C1005X7R1H473K050BB	K10000048121
4	24651	B 2	1	4700pF	C34	0402	X7R	10	100V	Capacitors	Digi-Key	490-4765-2-ND	Murata Electronics North	GCM155R72A472KA37D	K10000034993
5	14122	D 4	2	10µF	C10, C18	0805	X7R	10	10V	Capacitors	Digi-Key	490-3905-2-ND	Murata Electronics North	GRM21BR71A106KE51L	K10000051623
6	29130	O 27	1	22µF	C6	0805	X5R	20	35V	Capacitors	Digi-Key	445-14428-1-ND	TDK Corporation	C2012X5R1V226M125AC	K10000051444
7	27507	D 12	1	4.7µF	C32	0805	X7R	10	35V	Capacitors	Digi-Key	445-7555-1-ND	TDK Corporation	C2012X7R1V475K125AC	K10000050598
8	12335	E 2	2	1.0µF	C33, C36	1206	X7R	10	50V	Capacitors	Digi-Key	445-1423-2-ND	TDK Corporation	C3216X7R1H105K	K10000051347
9	27830	E 9	2	10µF	C5, C30	1206	X7R	10	35V	Capacitors	Digi-Key	587-3007-1-ND	Taiyo Yuden	GMK316AB7106KL-TR	K10000052586
10	13036	F 2	1	22µF	C31	1210	X7R	10	16V	Capacitors	Digi-Key	445-3945-2-ND	Murata Electronics North	GRM32ER71C226KE18L	K10000049197
11	21726	H 9	1	47µF	C17	1210	X7R	20	10V	Capacitors	Digi-Key	587-2783-1-ND	Taiyo Yuden	LMK325B7476MM-TR	K10000047996
12	11074	M 20/CORNER	1	0.0 (Zero Ohm)	R1	0402	1/10W	5		Resistors	Digi-Key	311-0.0JRTR-ND	Panasonic Electronic Cor	ERJ-2GE0R00X	K10000051452
13	11175	M 2	1	1.00K	R42	0402	1/16W	1		Resistors	Digi-Key	541-1.00KLTR-ND	Vishay Dale	CRCW04021K00FKED	K10000051945
14	27512		1	1.10	R47	0402	1/16W	1		Resistors	Digi-Key	541-1.10LLCT-ND	Vishay Dale	CRCW04021R10FKED	K10000048290
15	14220	M 14 / INTEL - 6	1	10.0K	R15	0402	1/10W	1		Resistors	Digi-Key	P10.0KLTR-ND	Yageo Corporation	ERJ-2RKF1002	3041485401
16	11016	M 1 / INTEL 13	1	100K	R44	0402	1/16W	1		Resistors	Digi-Key	311-100KLRTR-ND	Yageo Corporation	RC0402FR-07100KL	K10000051026
17	18500	M 31	1	180K	R46	0402	1/16W	1		Resistors	Digi-Key	311-180KL RTR-ND	Yageo Corporation	RC0402FR-07180KL	K10000047720

LINE NO.	KS PART NUMBER	CUSTOMER PART NUMBER	QTY	VALUE	DESIGNATORS	PKG/ CASE	T.COEFF/ PWR	TOL	VOLT RATED	DESCRIPTION	DISTRIBUTOR	DIST P/N	MANUFACTURER	MNFR. PART #	LOT NO
18	11615	M 4	1	4.70	R32	0402	1/16W	1	150V	Resistors	Venkel	CR0402-16W-4R70FT	Venkel	CR0402-16W-4R70FT	752530198
19	11311	M 3	1	4.99K	R41	0402	1/16W	1	50V	Resistors	Digi-Key	RMCF0402FT4K99TR-ND	Venkel	CR0402-16W-4991FT	K10000046565
20	13051	M 10	1	562K	R45	0402	1/16W	1	75V	Resistors	Digi-Key	P562KLTR-ND	Panasonic Electronic Com	ERJ-2RKF5623X	709045B604
21	27511	N 47	1	76.8K	R43	0402	1/16W	1		Resistors	Digi-Key	541-76.8KLTR-ND	Vishay Dale	CRCW040276K8FKED	1112086402
22	27508	AE 57	1	Bidirectional	D3	DO-214AC, SMA	400W		5V	Discrete Semiconductor Products	Digi-Key	SMAJ5.0CA-FDICT-ND	Diodes Inc	SMAJ5.0CA-13-F	K10000051036
23	27526	AE 40	1	PMEG6010CEH,115	D1	SOD-123F	1A		60V	Discrete Semiconductor Products	Digi-Key	568-4104-1-ND	NXP Semiconductors	PMEG6010CEH,115	K10000049528
24	28768	AE 42	1	Single	D2	SOD-523	350mA		40V	Discrete Semiconductor Products	Digi-Key	522-ZHCS350TA	On Semiconductor	ZHCS350TA	K10000051060
25	27530	Y 38	1	1000µH	L6	1210	100mA	10		Inductors_Coils_Chokes	Digi-Key	587-3214-1-ND	Taiyo Yuden	CBC3225T102KR	K10000051035
26	27528	Y 38	1	2.2µH	L2	3.00mm x 2.80mm x 1.20	1.4A	20		Inductors_Coils_Chokes	Digi-Key	445-4200-1-ND	TDK Corporation	VLF3012ST-2R2M1R4	K10000051097
27	27527	Y 38	1	22µH	L1	6.0 X 6.0 X 4.5	1.7A	20		Inductors_Coils_Chokes	Digi-Key	445-6533-1-ND	TDK Corporation	VLC6045T-220M	K10000051098
28	27510	Y 38	2	180µH	L3, L4	7.30mm x 7.30mm x 3.20	490mA	20		Inductors_Coils_Chokes	Digi-Key	732-4051-1-ND	Würth Electronics Inc	7447789218	K10000051037
29	27531	U 166	1	LM34910CSD/NOPB	U1	10-SON				Integrated Circuits	Texas Instruments	LM34910CSD/NOPB	Texas Instruments	LM34910CSD/NOPB	K10000051099
30	29006		1	TPS62170DSG	U2	8-WSON				Integrated Circuits	Digi-Key	296-30229-1-ND	Texas Instruments	TPS62170DSG-	K10000051032
31	28767	AM 92	1	2 X 2	J1	2mm				Connectors	Samtec	MMS-102-02-T-DV	Samtec Inc	MMS-102-02-T-DV	K10000051033
32	24901	AL 20	1	Cylindrical, Tapered,Black		0.375" Dia x 0.250" H				Hardware	Digi-Key	SJ5749-0-ND	3M	SJ61A3	K10000051086
33	14404	AL 7 / HW /COF	1	Rubber Feet (Clear)		0.440" Dia x 0.200" H				Hardware	Digi-Key	SJ5303-7-ND	3M	SJ-5303	K10000050008
34	DNI	DNI	0	DNI	J4, J5, J6, J7	DNI	DNI	0	DNI	Undefined Category			DNI	dni	



SAT0021E3
KS-T/H-TOP

Color	Part Number	Quantity	Reference	Description
	DNI	4	J4-J7	Undefined Category DNI DNI

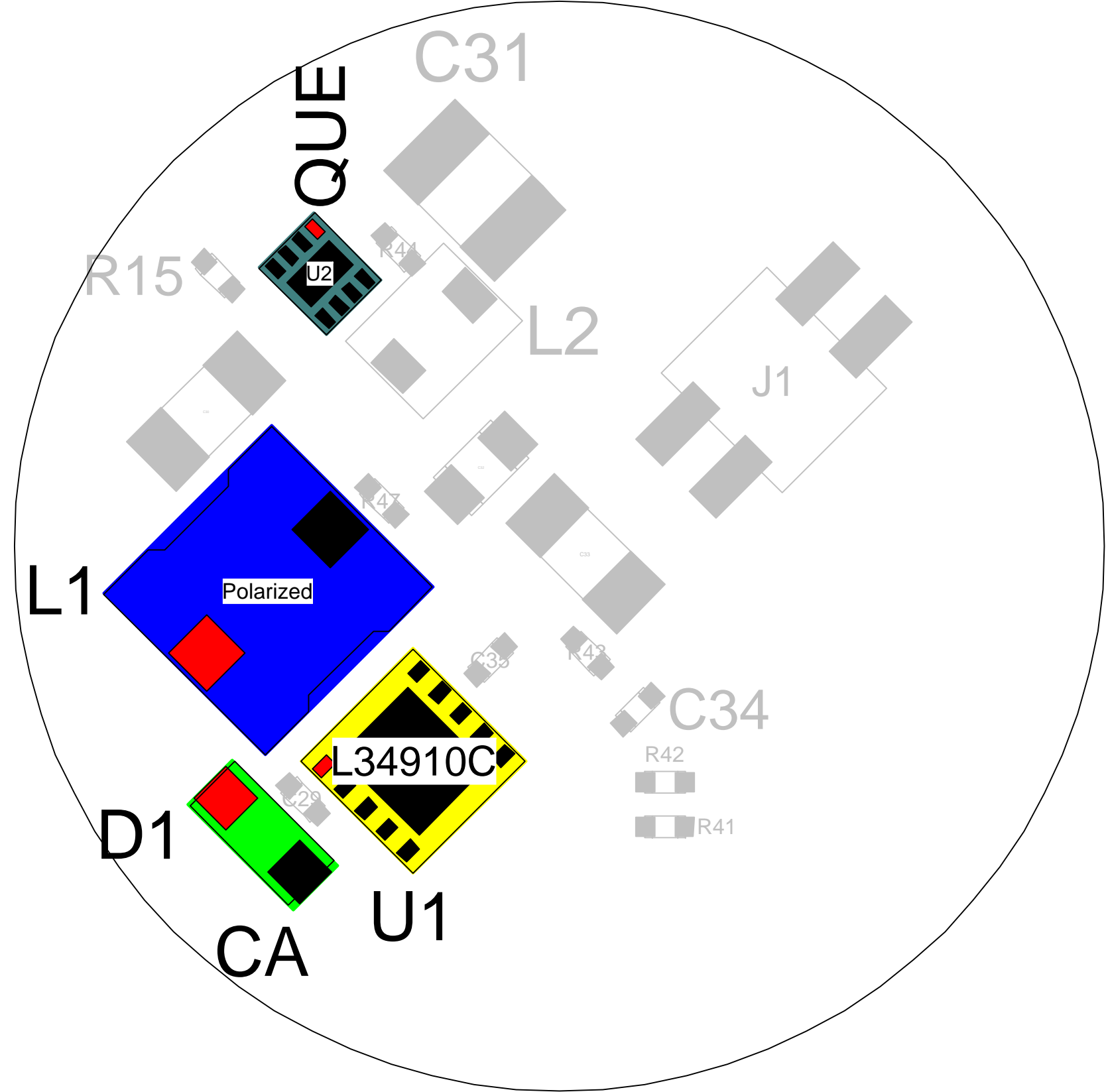


SAT0021E3

KS-QC-TOP

Color	Part Number	Quantity	Reference	Description
	27508	1	D3	Discrete Semiconductor Products DO-214AC, SMA Bidirectional
	28768	1	D2	Discrete Semiconductor Products SOD-523 Single
	27510	2	L3-L4	Inductors_Coils_Chokes 7.30mm x 7.30mm x 3.20mm 180uH

Part Marking
TE
35
Polarized



SAT0021E3

KS-QC-BOT

Color	Part Number	Quantity	Reference	Description	Part Marking
<div></div>	27526	1	D1	Discrete Semiconductor Products SOD-123F PMEG6010CEH,115	CA
<div></div>	27527	1	L1	Inductors_Coils_Chokes 6.0 X 6.0 X 4.5 22uH	Polarized
<div></div>	27531	1	U1	Integrated Circuits 10-SON LM34910CSD/NOPB	L34910C
<div></div>	29006	1	U2	Integrated Circuits 8-WSON TPS62170DSG	QUE
					<div><div></div><div>crypton</div><div>solutions</div></div>

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