

Board Name	SAT0045
Project Details	
Due Date	
QTY	10
JOB NUMBER	120425
CUST. CONTACT	Ajinder Singh
KS ID	13639

- 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

Master Copy

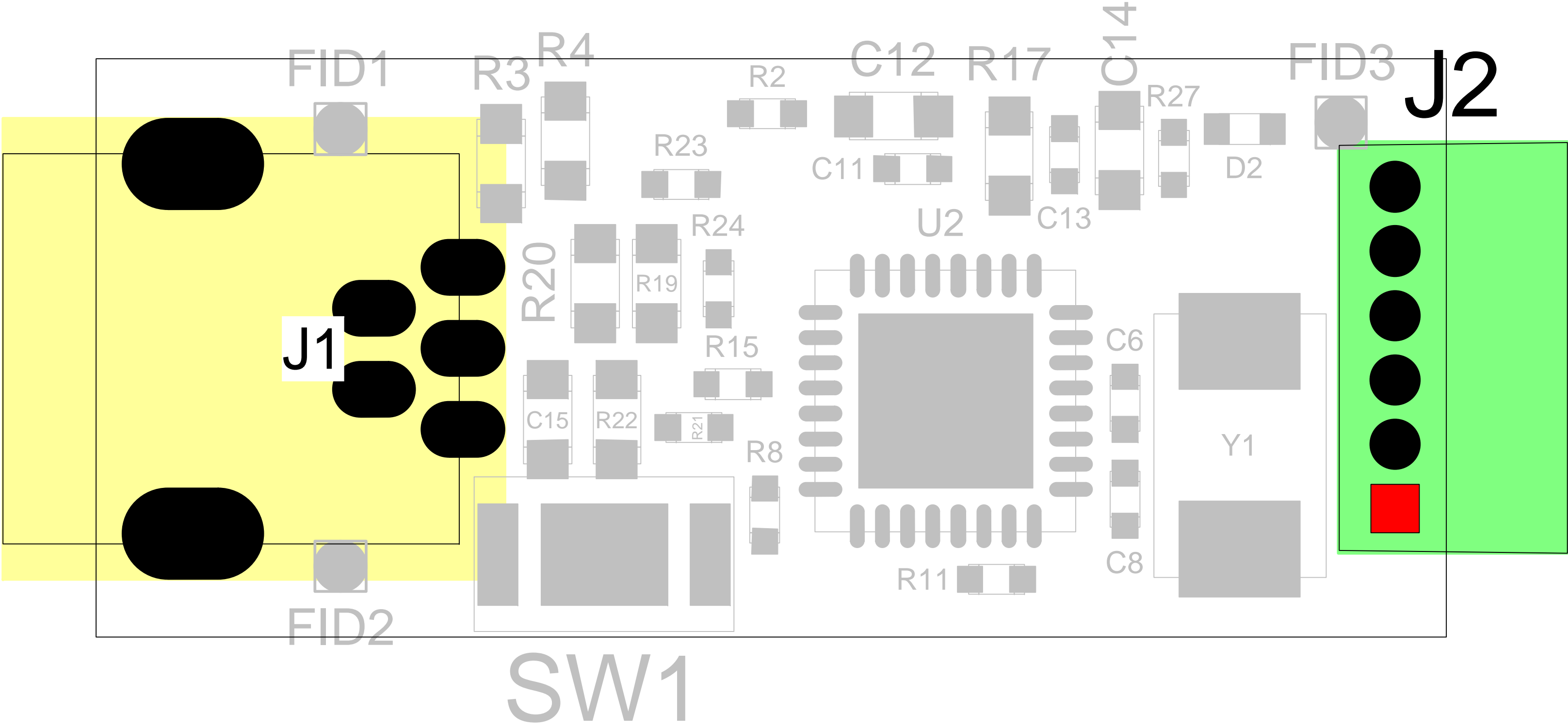
REVIEWED

By ARanpariya at 11:38 am, Aug 19, 2013

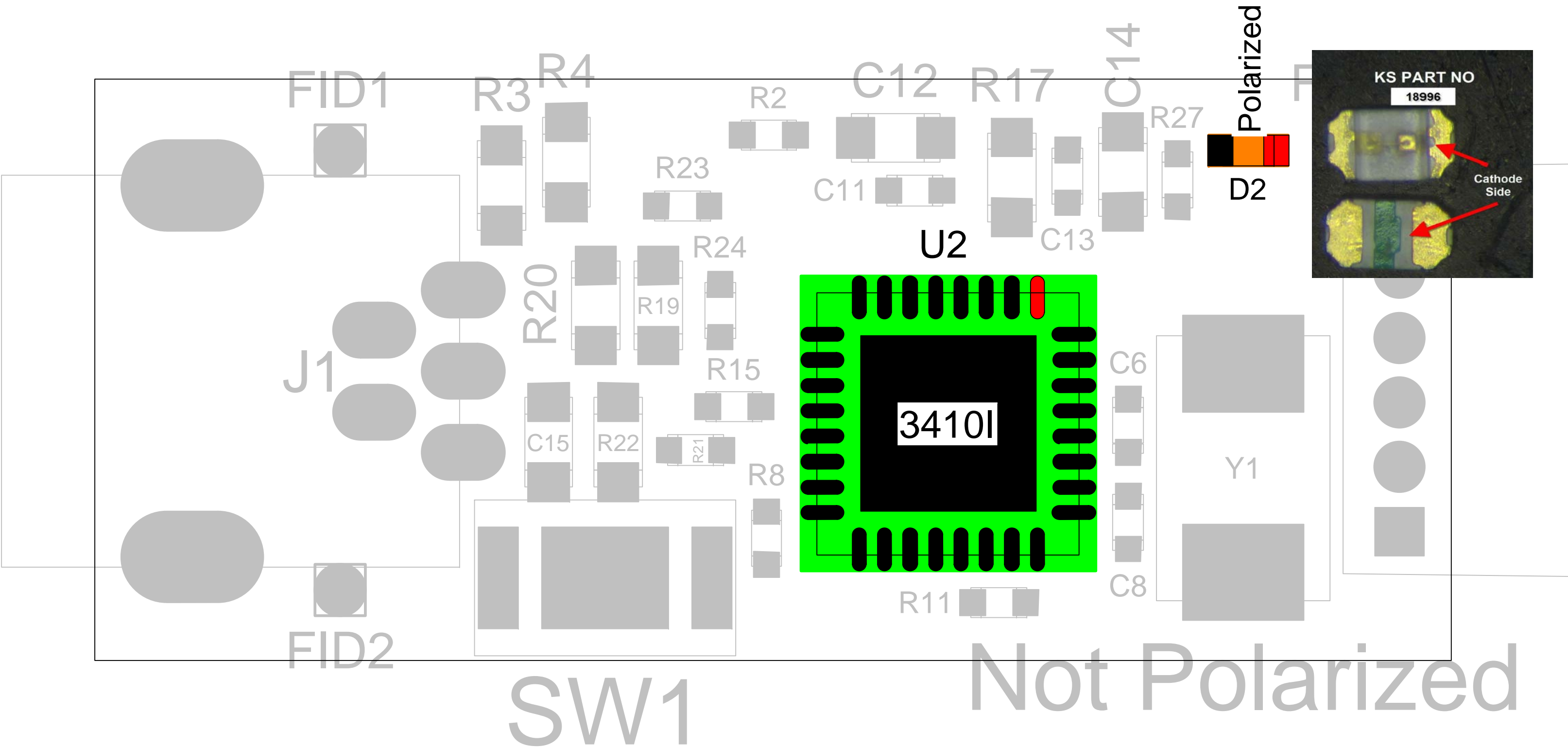
Date	6/14/2013	08/15/2013			
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KS Revision No	1.0	1.0			
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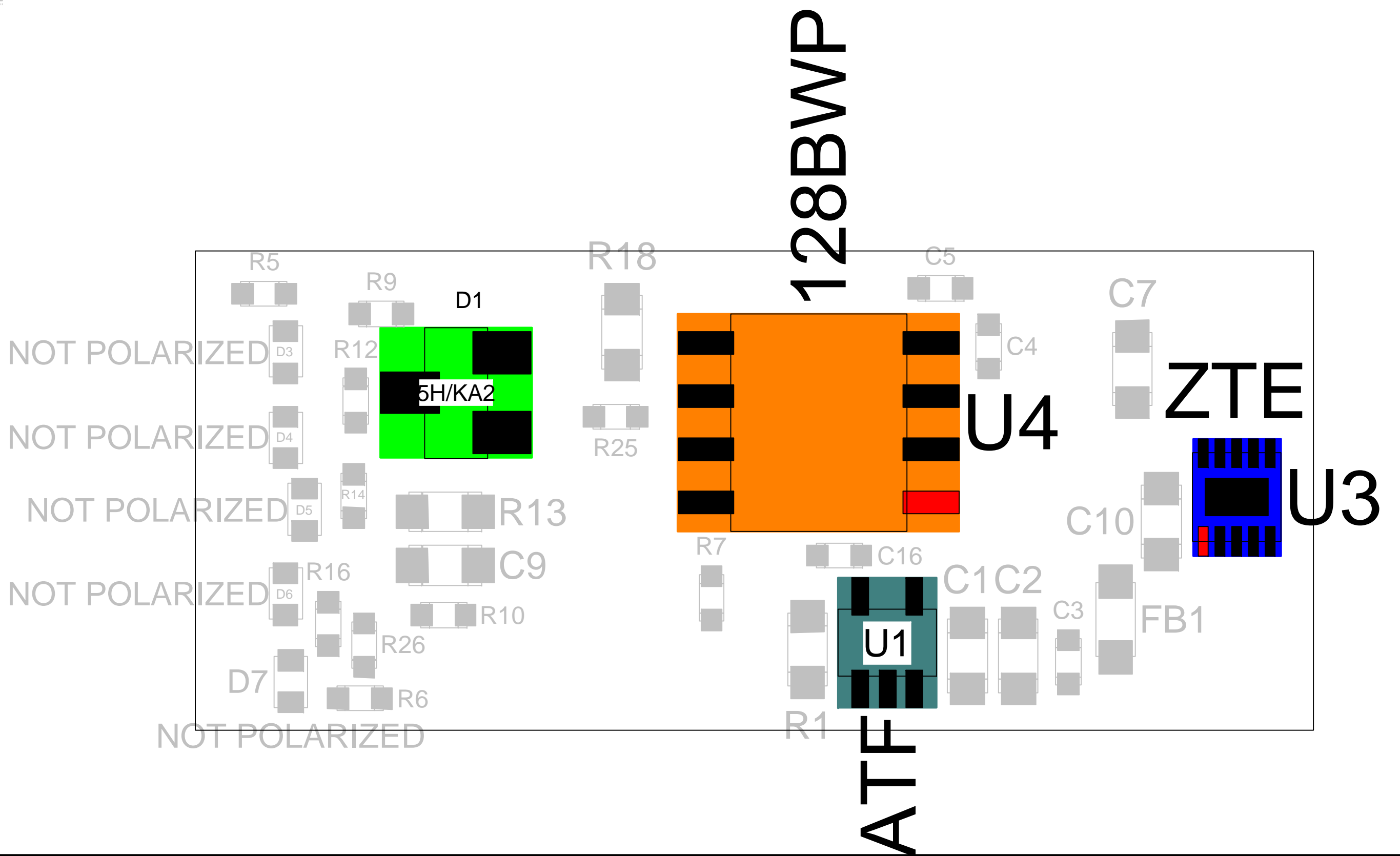
LINE NO.	KS PART NUMBER	CUSTOMER PART NUMBER	QTY	VALUE	DESIGNATORS	PKG/ CASE	T.COEFF/ PWR	TOL	VOLT RATED	DESCRIPTION	DISTRIBUTOR	DIST P/N	MANUFACTURER	MNFR. PART #	LOT NO
	11116	B 1	4	10000pF	C3, C11, C13, C16	0402	X7R	10	50V	Capacitors	Digi-Key	490-4516-2-ND	Murata Electronics North America	GRM155R71H103KA88D	K10000049918
	22919	B 8	2	22pF	C4, C5	0402	C0G (NP0)	5	50V	Capacitors	Digi-Key	587-1203-2-ND	Taiyo Yuden	UMK105CG220JV-F	K10000029513
3	13078	B 3	2	33pF	C6, C8	0402	C0G	5	50V	Capacitors	Digi-Key	490-3220-2-ND	Murata Electronics North America	GRM1555C1H330JZ01D	K10000045804
4	11301	C 10/ CORNER 2	1	0.1µF	C1	0603	X7R	10	50V	Capacitors	Digi-Key	490-1519-2-ND	Murata Electronics North America	GRM188R71H104KA93D	K10000050009
5	11068	C 1	7	1.0µF	C2, C7, C9, C10, C12, C14, C15	0603	X7R	10	16V	Capacitors	Digi-Key	445-1604-2-ND	Tdk Corporation	C1608X7R1C105K	K10000049110
6	11074	M 20/CORNER 1	5	0.0 (Zero Ohm)	R12, R14, R16, R23, R24	0402	1/10W	5		Resistors	Digi-Key	311-0.0JRTR-ND	Panasonic - Ecg	ERJ-2GE0R00X	K10000050238
7	11306	M 3	1	1.50K	R2	0402	1/16W	1	50V	Resistors	Digi-Key	P1.50KLTR-ND	Panasonic - Ecg	ERJ-2RKF1501X	K10000043807
8	14220	M 14	2	10.0K	R9, R26	0402	1/10W	1		Resistors	Digi-Key	P10.0KLTR-ND	Yageo America	ERJ-2RKF1002	K10000050149
9	14552	M 15	7	15.0K	R7, R8, R10, R11, R15, R21, R25	0402	1/16W	1		Resistors	Digi-Key	P15.0KLTR-ND	Panasonic - Ecg	ERJ-2RKF1502X	K10000039337
10	11981	M 5	1	2.21K	R27	0402	0.063W	1	50V	Resistors	Digi-Key	311-2.21KLRTTR-ND	Yageo America	RC0402FR-072K21L	K10000050287
11	21035	M 24	2	330	R5, R6	0402	±100ppm/°C	1	1/10W	Resistors	Digi-Key	P330LTR-ND	Panasonic - Ecg	ERJ-2RKF3300X	K10000049592
12	12549	N 14	2	1.50K	R19, R20	0603	±25ppm/°C	0.1	1/10W	Resistors	Digi-Key	RG16P1.5KBCT-ND	Susumu Co Ltd	RG1608P-152-B-T5	K10000049030
13	11210	N 38	1	100	R22	0603	±100ppm/°C	1	1/10W	Resistors	Digi-Key	311-100HRTR-ND	Panasonic - Ecg	ERJ-3EKF1000V	K10000049032
14	12565	N 47	1	100K	R1	0603	1/16W	0.1	150V	Resistors	Digi-Key	RG16P100KBCT-ND	Vishay/Dale	TNPW06031003BT9	K10000049033
15	11127	N 21	1	100K	R18	0603	1/16W	1		Resistors	Digi-Key	311-100KHRTR-ND	Yageo America	RC0603FR-07100KL	K10000049033
16	11468	N 45	2	33.2	R3, R4	0603	1/10W	1	50V	Resistors	Digi-Key	311-33.2HRTR-ND	Yageo America	RC0603FR-0733R2L	K10000041618
17	11486	N 5	1	33.0K	R13	0603	1/10W	1	150V	Resistors	Digi-Key	P33.0KHTR-ND	Panasonic - Ecg	ERJ-3EKF3302V	K10000043619
18	12041	N 9	1	90.9K	R17	0603	1/10W	1	150V	Resistors	Venkel	CR0603-10W-9092FT	Venkel	CR0603-10W-9092FT	663260062
19	20020	X 8	1	60	FB1	0603	800mA			Filters	Digi-Key	587-1873-2-ND	Taiyo Yuden	BK1608HS600-T	K10000047741
20	24301	X 8	5	TPD1E10B06DPY	D3, D4, D5, D6, D7	2-X2SON			6.0V	Circuit Protection	Texas Instruments	TPD1E10B06DPYR	Texas Instruments	TPD1E10B06DPY	K10000050147
21	18997	Z 9	1	LED - Yellow Clear	D2	0402	20mA	130	2.1V	Optoelectronics	Digi-Key	511-1595-2-ND	Rohm Semiconductor	SML-P12YTT86	K10000028852
22	12404	AE 9	1	Single - Left/F	D1	SOT-23-3	200mA		75V	Discrete Semiconductor Products	Digi-Key	MMBD4148-FDICT-ND	Fairchild Semiconductor	MMBD4148	K10000028789
23	22995	U 150	1	TPD4S014DSQR	U3	10-SON				Integrated Circuits	Texas Instruments	TPD4S014DSQR	Texas Instruments	TPD4S014DSQR	K10000035530
24	28829		1	TUSB3410IRHB	U2	32-QFN				Integrated Circuits			Texas Instruments	TUSB3410IRHB	
25	22403	BB 16	1	M24128-BWMN6	U4	8-SOIC	400kHz		2.5V ~ 5.5V	Integrated Circuits	Future Electronics	M24128-BWMN6TP	Stmicroelectronics	M24128-BWMN6TP	K10000035391
26	24661	U 161	1	TPS79733DCK	U1	SOT-353	50mA		3.3V	Integrated Circuits	Texas Instruments	TPS79733DCKR	Texas Instruments	TPS79733DCK	K10000034971
27	11634	W 1/W 12	1	12MHZ	Y1	2-SMD 5.00mm x 3.20mm	18pF			Crystals	Digi-Key	535-9100-2-ND	Abracon Corporation	ABM3-12.000MHZ-B2-T	K10000043236
28	22080	AF 11	1	PB SPST-NO Off-Mom	SW1	3.9 mm x 2.90 mm	50mA	160	12VDC	Switches	Mouser	688-SKRKAE	Alps	SKRKAE010	K10000033452
29	22556	AM 80/BB 46/LB 12	6	1 X 50 R/A Male	J2	0.05"				Connectors	Digi-Key	ED8650-ND	Mill-Max	850-10-050-20-001000	K10000048435
30	13291	AM 29	1	USB - Mini B type	J1	T/H				Connectors	Tti	54819-0519	Molex	54819-0519	K10000045899



SAT0045				
KS-T/H-TOP				
Color	Part Number	Quantity	Reference	Description
	22556	1	J2	Connectors 0.05" 1 X 50 R/A Male
	13291	1	J1	Connectors T/H USB - Mini B type



SAT0045					
KS-QC-TOP					
Color	Part Number	Quantity	Reference	Description	Part Marking
	28829	1	U2	Integrated Circuits 32-QFN TUSB3410IRHB	3410I
	18997	1	D2	Optoelectronics 0402 LED - Yellow Clear	Polarized



SAT0045  
KS-QC-BOT

Color	Part Number	Quantity	Reference	Description
	12404	1	D1	Discrete Semiconductor Products SOT-23-3 Single - Left/F
	22995	1	U3	Integrated Circuits 10-SON TPD4S014DSQR
	22403	1	U4	Integrated Circuits 8-SOIC M24128-BWMN6
	24661	1	U1	Integrated Circuits SOT-353 TPS79733DCK

Part Marking
5H/KA2
ZTE
128BWP
ATF

[illegible]

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