

Board Name	SAT0022E3
Project Details	
Due Date	08/26/2013
QTY	10
JOB NUMBER	120314
CUST. CONTACT	Ajinder Singh
KS ID	13681

- 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

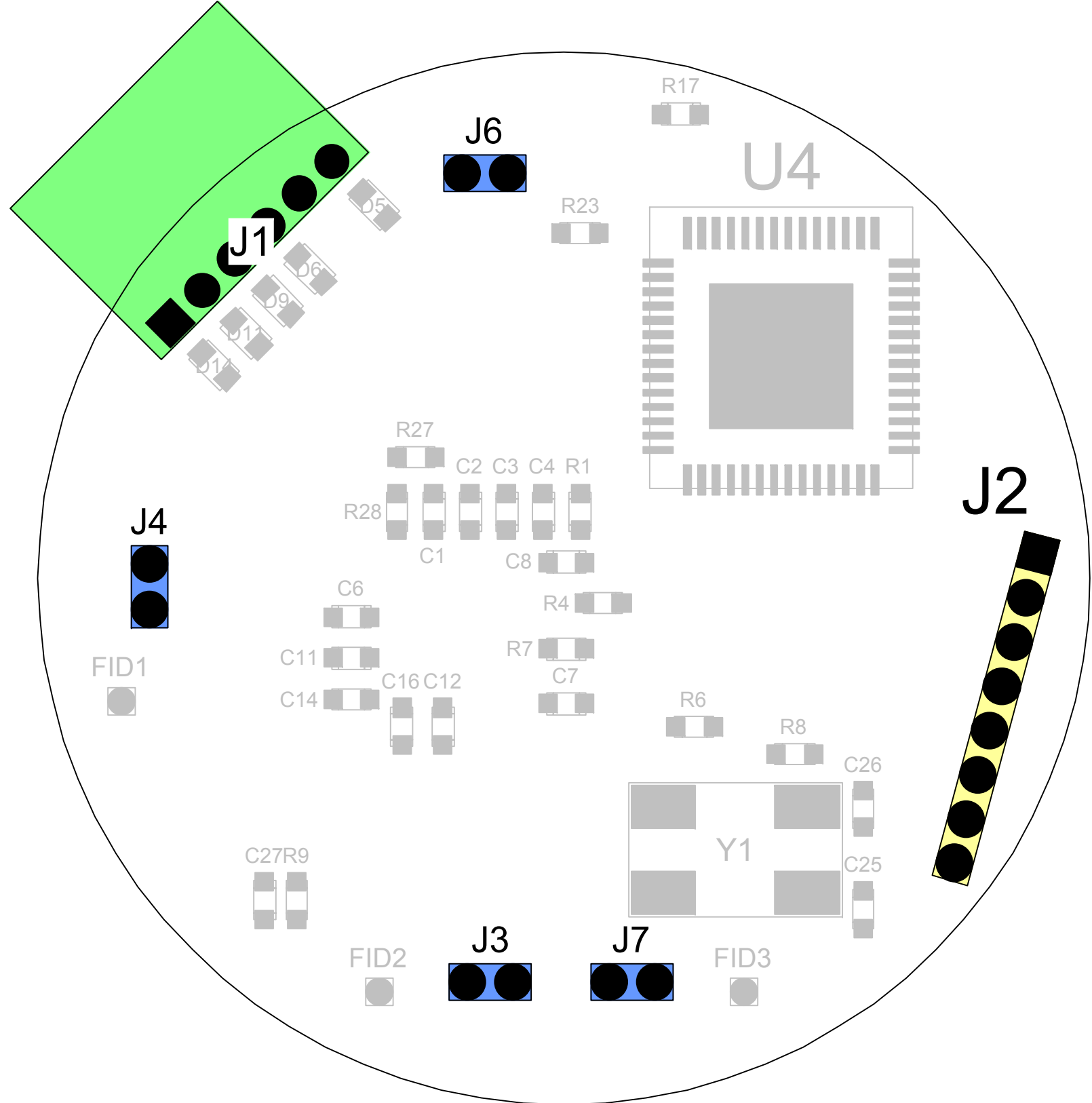
NOTES & INSTRUCTIONS

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REVIEWED
By ARanpariya at 2:34 pm, Aug 14, 2013

Date	6/11/2013	06/27/2013	08/13/2013		
KS Revision No	1.0	1.0	1.0		

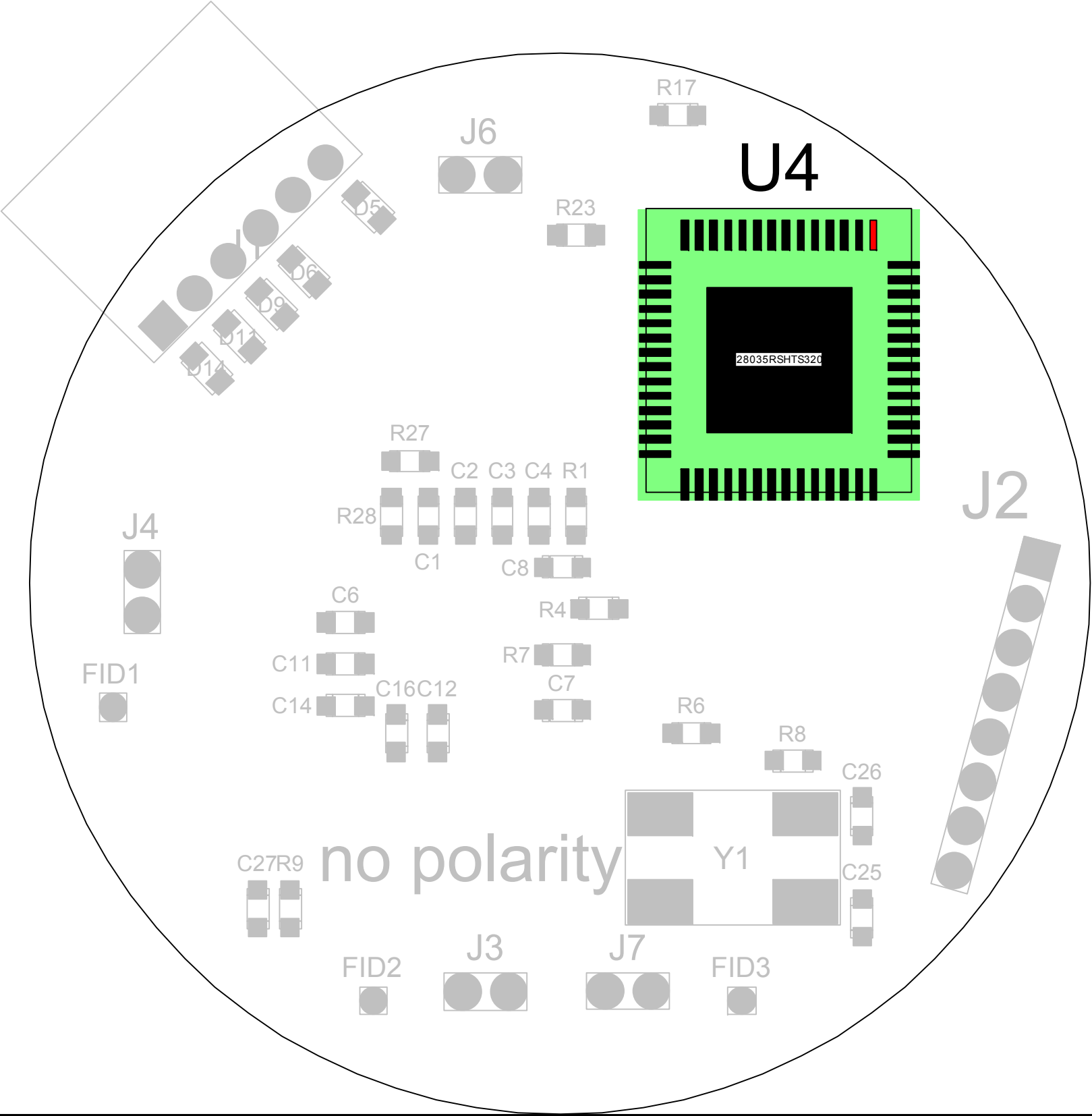
LINE NO.	KS PART NUMBER	CUSTOMER PART NUMBER	QTY	VALUE	DESIGNATORS	PKG/ CASE	T.COEFF/ PWR	TOL	VOLT RATED	DESCRIPTION	DISTRIBUTOR	DIST P/N	MANUFACTURER	MNFR. PART #	LOT NO
1	27513	B 14	2	0.012µF	C3, C4	0402	X7R	10	50V	Capacitors	Digi-Key	399-9949-1-ND	Murata	GRM155R71H123KA12D	K10000048010
2	27513	B 14	3	0.012µF	C7, C8, C9	0402	X7R	10	50V	Capacitors	Digi-Key	399-9949-1-ND	Murata	GRM155R71H123KA12D	K10000048010
3	22444	B 7	4	0.1µF	C1, C2, C19, C20	0402	X7R	10	50V	Capacitors	Digi-Key	445-5932-2-ND	Tdk Corporation	C1005X7R1H104K	K10000028604
4	12420	B 9	1	0.1µF	C6	0402	X7R	10	16V	Capacitors	Digi-Key	445-4952-2-ND	Tdk Corporation	C1005X7R1C104K	K10000049921
5	27514	B 14	1	1.0µF	C11	0402	X7S	10	10V	Capacitors	Digi-Key	445-9116-1-ND	Tdk Corporation	C1005X7S1A105K050BC	K10000048128
6	11116	B 1	1	10000pF	C13	0402	X7R	10	50V	Capacitors	Digi-Key	490-4516-2-ND	Murata Electronics North Am	GRM155R71H103KA88D	K10000049918
7	11296	B 1	1	1000pF	C12	0402	X7R	10	50V	Capacitors	Digi-Key	445-1256-2-ND	Tdk Corporation	C1005X7R1H102K	K10000032586
8	11229	B 1	2	15pF	C25, C26	0402	C0G	5	50V	Capacitors	Venkel	C0402COG500-150JNE	Venkel	C0402COG500-150JNE	OB6223AYV
9	11637	B 2	2	3300pF	C15, C27	0402	X7R	10	50V	Capacitors	Digi-Key	311-1034-2-ND	Venkel	C0402X7R500-332KNE	K10000034924
10	13093	B 3	2	680pF	C14, C16	0402	C0G	5	50V	Capacitors	Digi-Key	490-3240-2-ND	Murata	GRM1555C1H681JA01D	K10000011519
11	12509	C 4	1	2.2µF	C24	0603	X7R	10	10V	Capacitors	Digi-Key	445-5958-2-ND	Murata Electronics North Am	GRM188R71A225KE15D	K10000049081
12	27515	C 17	3	1.2µF	C21, C22, C23	0805	X7R	10	6.3V	Capacitors	Digi-Key	399-4929-1-ND	Kemet	C0805C125K9RACTU	K10000045794
13	24690	E 4	2	10µF	C17, C28	1206	X5R	10	50V	Capacitors	Digi-Key	445-5998-2-ND	Tdk Corporation	C3216X5R1H106K	K10000044076
14	27535	U 179	1	TMX320F28035RSHS	U4	56-VFQFN				Integrated Circuits	Mouser	595-TMS320F28035RSHT	Texas Instruments	TMX320F28035RSHS	K10000049505
15	14220	M 14	11	10.0K	R1, R2, R3, R4, R5, R6, R7, R11, R16, R17, R32	0402	1/10W	1		Resistors	Digi-Key	P10.0KLTR-ND	Yageo America	ERJ-2RKF1002	K10000048777
16	11016	M 1	2	100K	R27, R28	0402	1/16W	1		Resistors	Digi-Key	311-100KLTR-ND	Yageo America	RC0402FR-07100KL	K10000045631
17	11322	M 4	1	33.2K	R8	0402	1/16W	1	50V	Resistors	Digi-Key	P33.2KLTR-ND	Panasonic - Ecg	ERJ-2RKF3322X	510283380
18	21035	M 24	1	330	R9	0402	±100ppm/°C	1	1/10W	Resistors	Digi-Key	P330LTR-ND	Panasonic - Ecg	ERJ-2RKF3300X	K10000049592
19	28777		2	4.75K	R14, R15	0402	1/16W	0.1		Resistors			Panasonic - Ecg	ERA-2AEB4751X	
20	13137	M 11	1	56.2	R23	0402	1/16W	1	75V	Resistors	Digi-Key	P56.2LTR-ND	Panasonic - Ecg	ERJ-2RKF56R2X	7121255502
21	24301	X 8	13	TPD1E10B06DPY	D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15	0402			6.0V	Circuit Protection	Texas Instruments	TPD1E10B06DPYR	Texas Instruments	TPD1E10B06DPY	K10000042224
22	27533	AE 41	2	STPS1L40A	D1, D2	DO-214AC, SMA	1A		40V	Discrete Semiconductor Products	Digi-Key	497-3753-1-ND	Stmicroelectronics	STPS1L40A	K10000048127
23	27534	U 175	1	AFE031AIRGZT	U3	48-VQFN				Integrated Circuits	Texas Instruments	AFE031AIRGZT	Texas Instruments	AFE031AIRGZT	K10000045657
24	27536	W 13	1	20.0000MHz	Y1	4-SMD 5mm x 3.2mm	-20°C ~ 70°C	20	18pF	Crystals	Digi-Key	535-9125-1-ND	Abracon Corporation	ABM3B-20.000MHZ-B2-T	K10000049524
25	20983-6	AM 78/LB 12	1	1 X 6 R/A	J1	0.05"				Connectors	Digi-Key	851-43-010-20-001000	Mill-Max	851-43-010-20-001000	K10000044132
26	20983-8	AM 78/LB 12	1	1 X 8 R/A	J2	0.05"				Connectors	Digi-Key	851-43-010-20-001000	Mill-Max	851-43-010-20-001000	K10000044132
27	26194	AM 88	4	FW-50-01-L-D	J3, J4, J6, J7	0.05"				Connectors	Samtec	FW-50-01-L-D-300-280	Samtec	FW-50-01-L-D-300-280	K10000041242



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KS-T/H-TOP

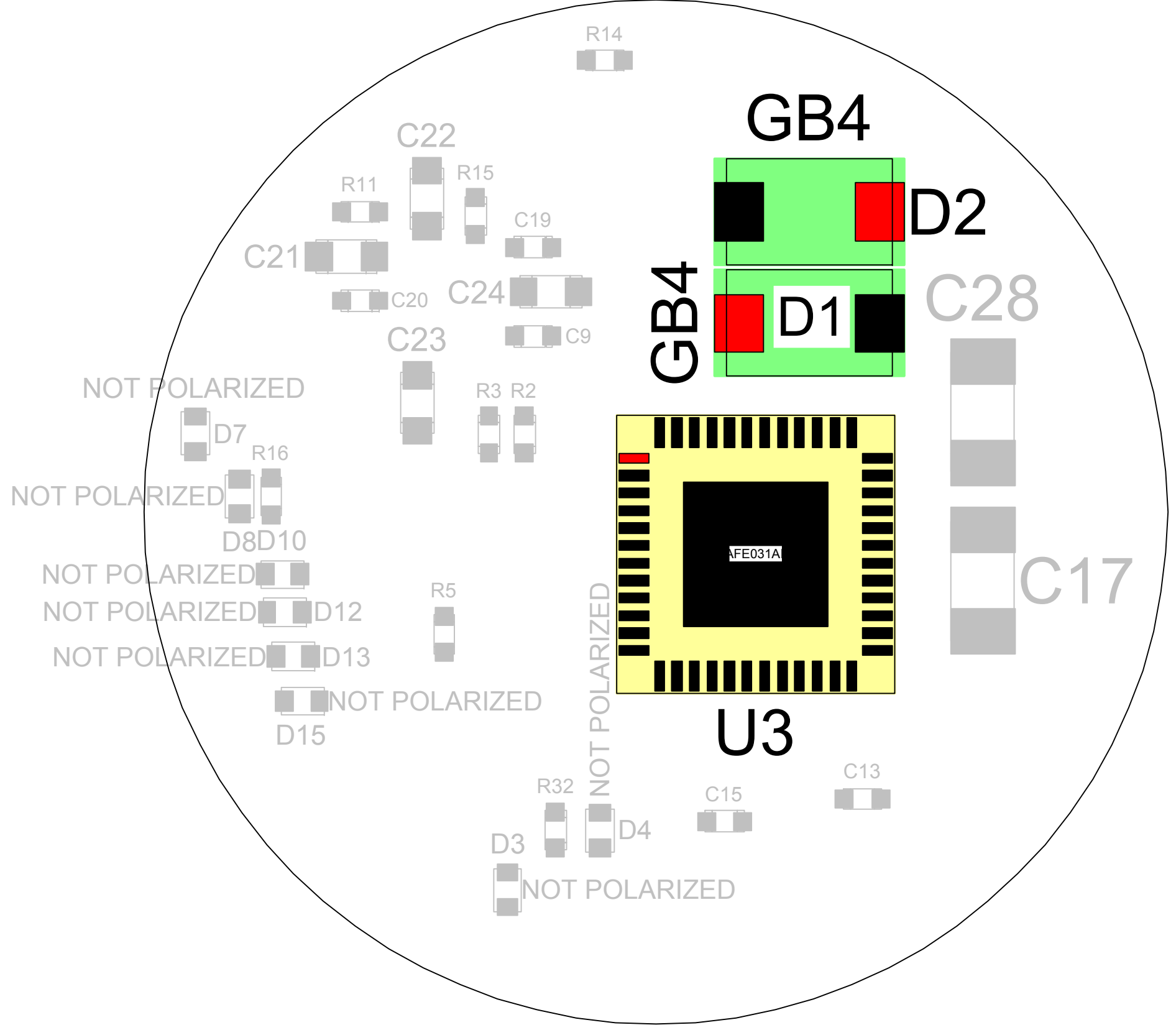
Color	Part Number	Quantity	Reference	Description
	20983-6	1	J1	Connectors 0.05" 1 X 6 R/A
	20983-8	1	J2	Connectors 0.05" 1 X 8 R/A
	26194	4	J3~J4, J6~J7	Connectors 0.05" FW-50-01-L-D



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KS-QC-TOP

Color	Part Number	Quantity	Reference	Description	Part Marking
	27535	1	U4	Integrated Circuits 56-VFQFN TMX320F28035RSHTS	F28035RSHT S320



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KS-QC-BOTTOM

Color	Part Number	Quantity	Reference	Description	Part Marking
	27533	2	D1-D2	Discrete Semiconductor Products DO-214AC, SMA STPS1L40A	GB4
	27534	1	U3	Integrated Circuits 48-VQFN AFE031AIRGZT	AFE031AI

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