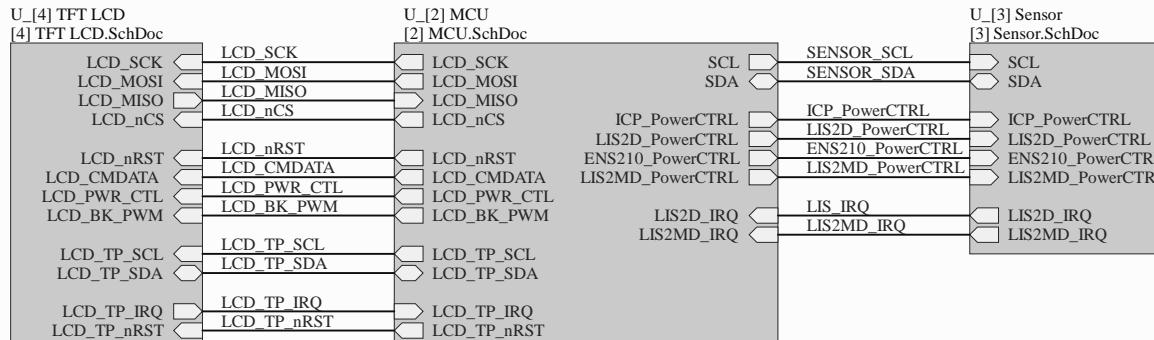
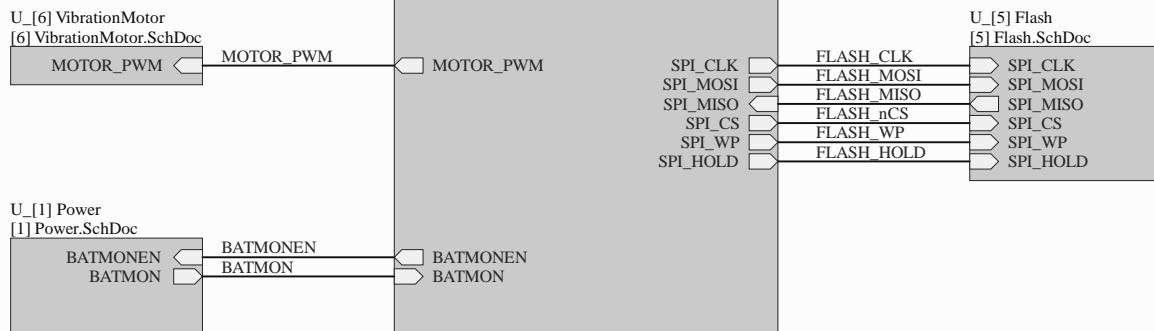


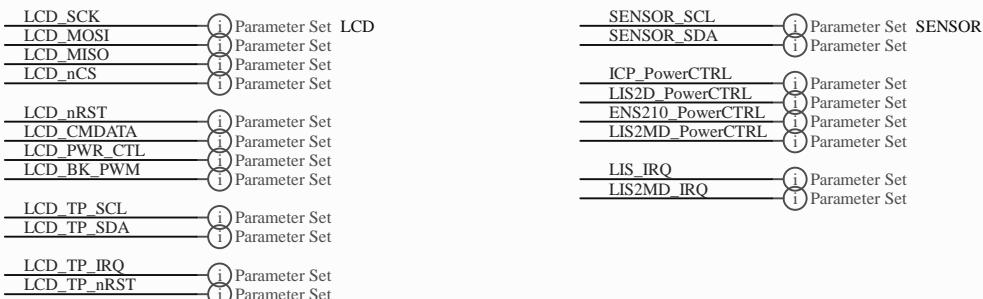
A



B



C

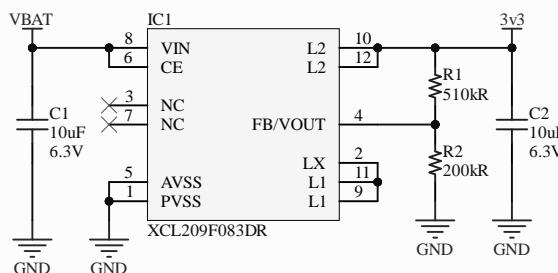


D

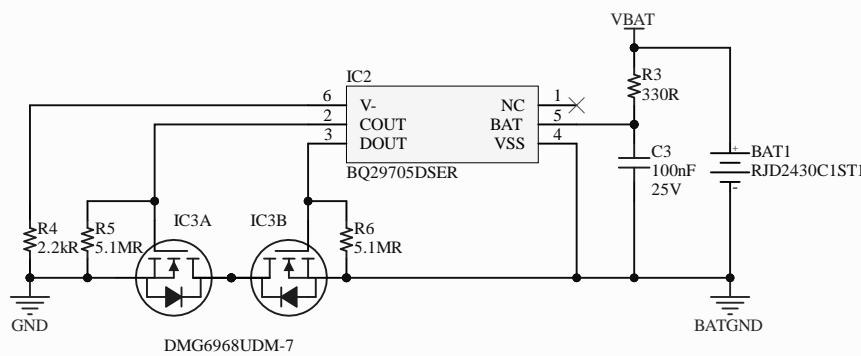


Title: Smart Watch			<i>Yıldız IoT Elperek Mahallesi Saray Sokak, No:12 SAKARYA / TURKEY</i>
Size: A4	Revision: 1	Sheet 0 of 7	Date: 2/23/2022
Project: SmartWatch.PjPcb			Cannot open file P:\Common\AltiumLibrary\mami-library\yildizIoT Library\yildizIoT Library\Templates\YILDIZ-IOT-KUR UMSAL LOGO (YILDIZLI)
File: P:\SmartWatch\HW\SmartWatch\Schematic\SmartWatch.SchDoc			

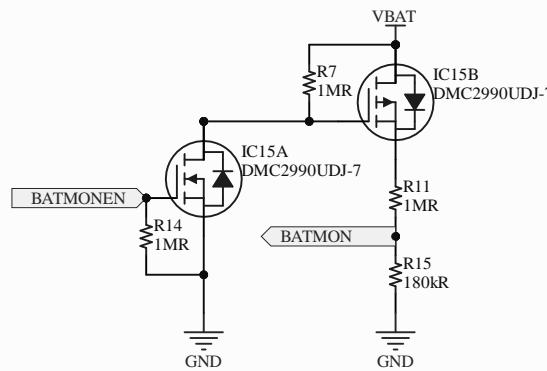
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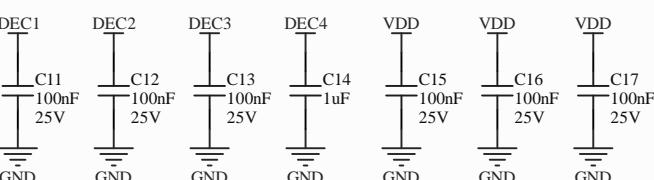
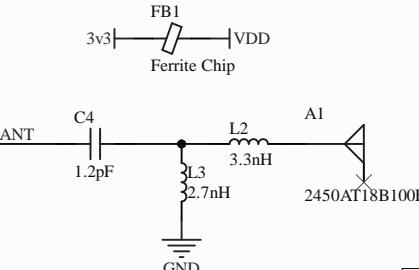
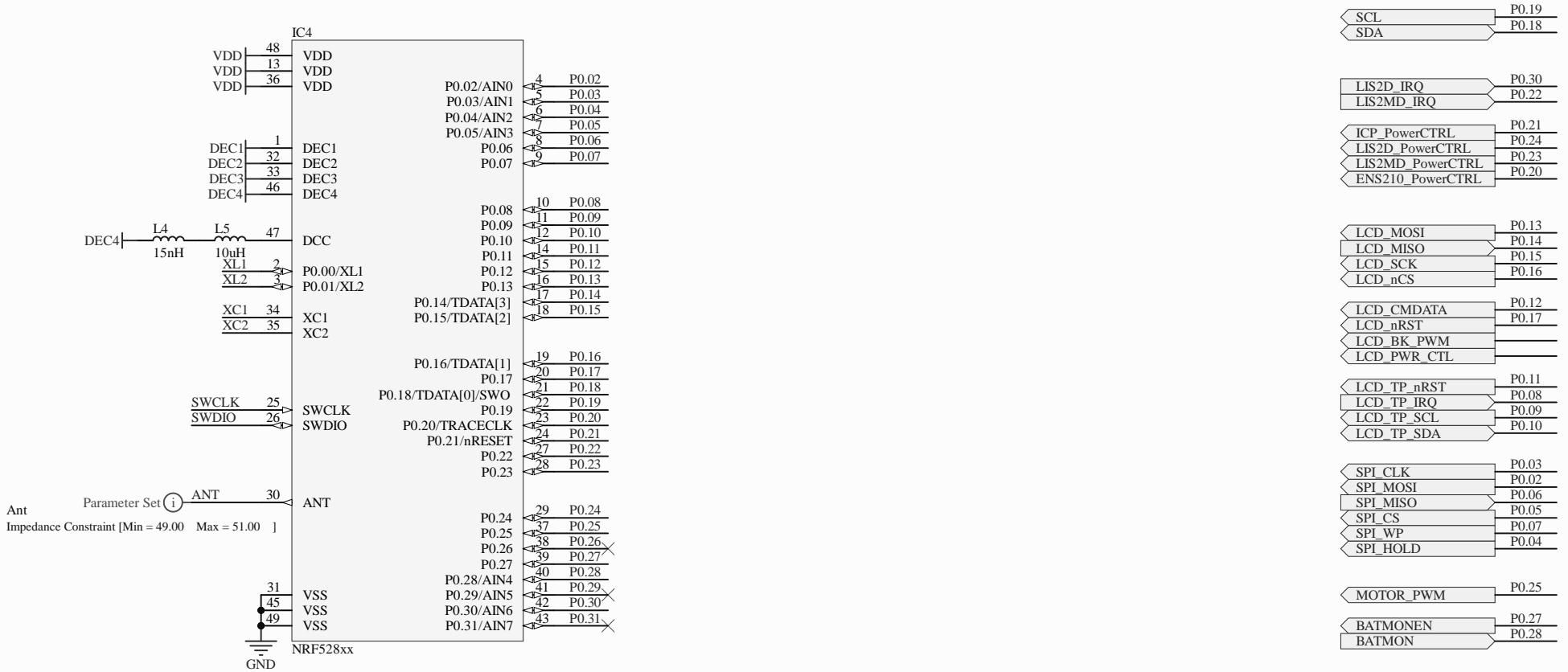
Title: **Power**

Size: A4 | Revision: 1 | Sheet 1 of 7 | Date: 2/23/2022

Project: SmartWatch.PrjPcb

File: P:\SmartWatch\HW\SmartWatch\Schematic[1].SchDoc

YILDIZ IoT
Elperek Mahallesi
Saray Sokak, No:12
SAKARYA / TURKEY
UMSAL LOGO (YILDIZLI)

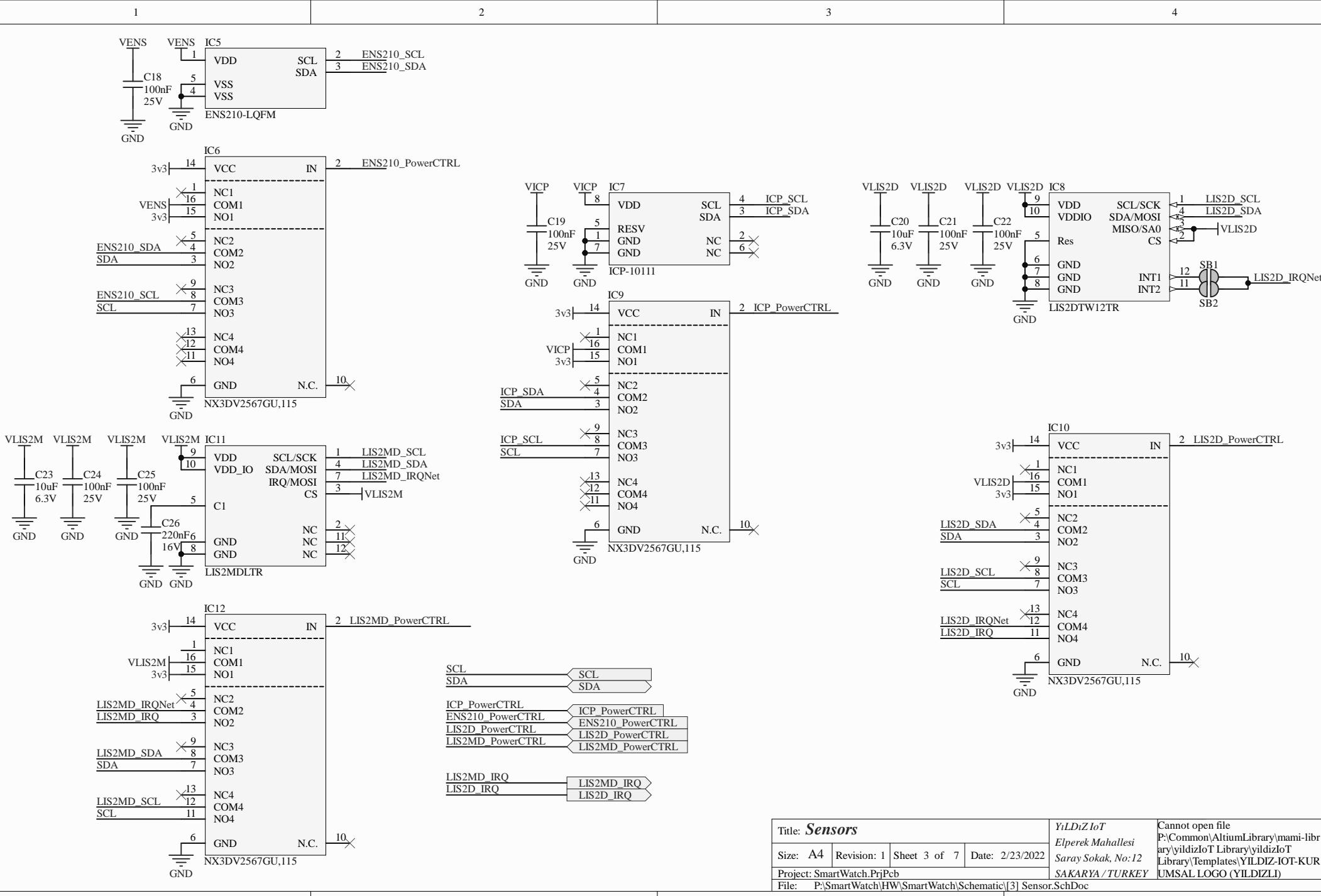


Title: BLE SoC

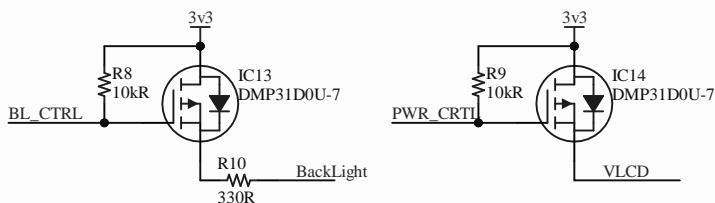
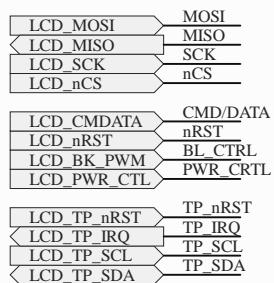
Yıldız IoT
Elperek Mahallesi
Saray Sokak, No:12
SAKARYA / TURKEY

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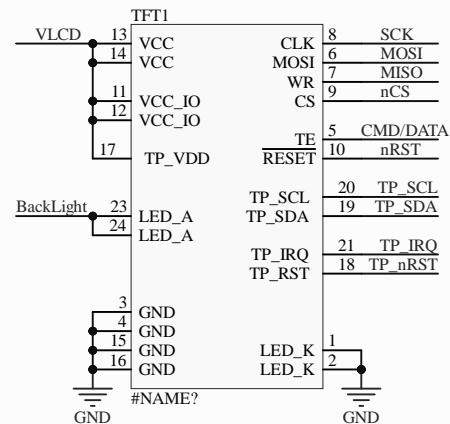
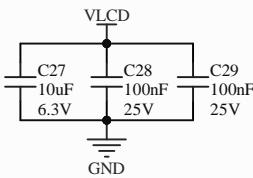
Size: A4	Revision: 1	Sheet 2 of 7	Date: 2/23/2022
Project: SmartWatch.PrjPcb			
File: P:\SmartWatch\HW\SmartWatch\Schematic\2 MCU.SchDoc			



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Title: TFT LCD				YILDIZ IoT Elperek Mahallesi Saray Sokak, No:12 SAKARYA / TURKEY	Cannot open file P:\Common\AltiumLibrary\mami-library\yildizIoT Library\yildizIoT Library\Templates\YILDIZ-IOT-KUR UMSAL LOGO (YILDIZLI)
Size: A4	Revision: 1	Sheet 4 of 7	Date: 2/23/2022		
Project: SmartWatch.PrjPcb					
File: P:\SmartWatch\HW\SmartWatch\Schematic[4] TFT LCD.SchDoc					

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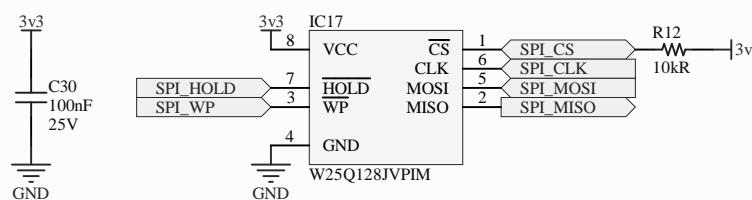
D

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Title: <i>Serial Flash</i>			
Size: A4	Revision: 1	Sheet 5 of 7	Date: 2/23/2022
Project: SmartWatch.PrjPcb			
File: P:\SmartWatch\HW\SmartWatch\Schematic\{5} Flash.SchDoc			

YiLDiZ IoT
Elperek Mahallesi
Saray Sokak, No:12
SAKARYA / TURKEY

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Library\Templates\YILDIZ-IOT-KUR
UMSAL LOGO (YILDIZLI)

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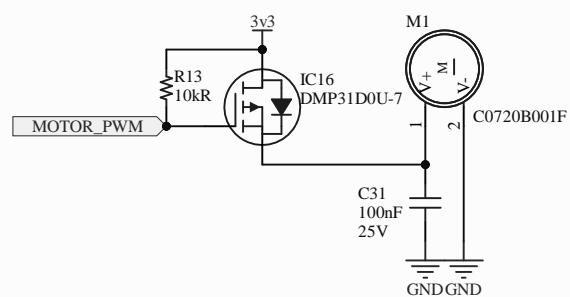
D

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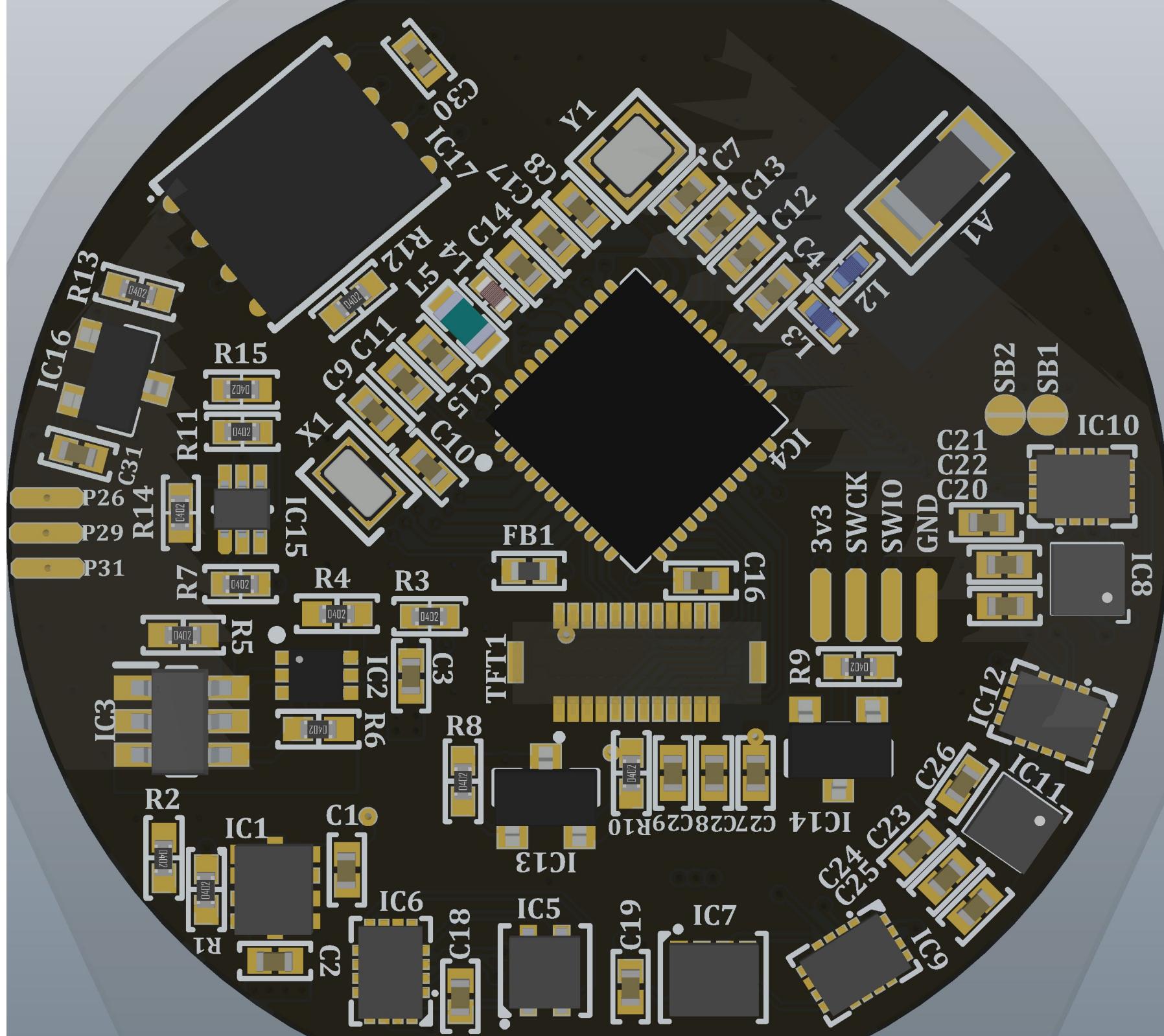
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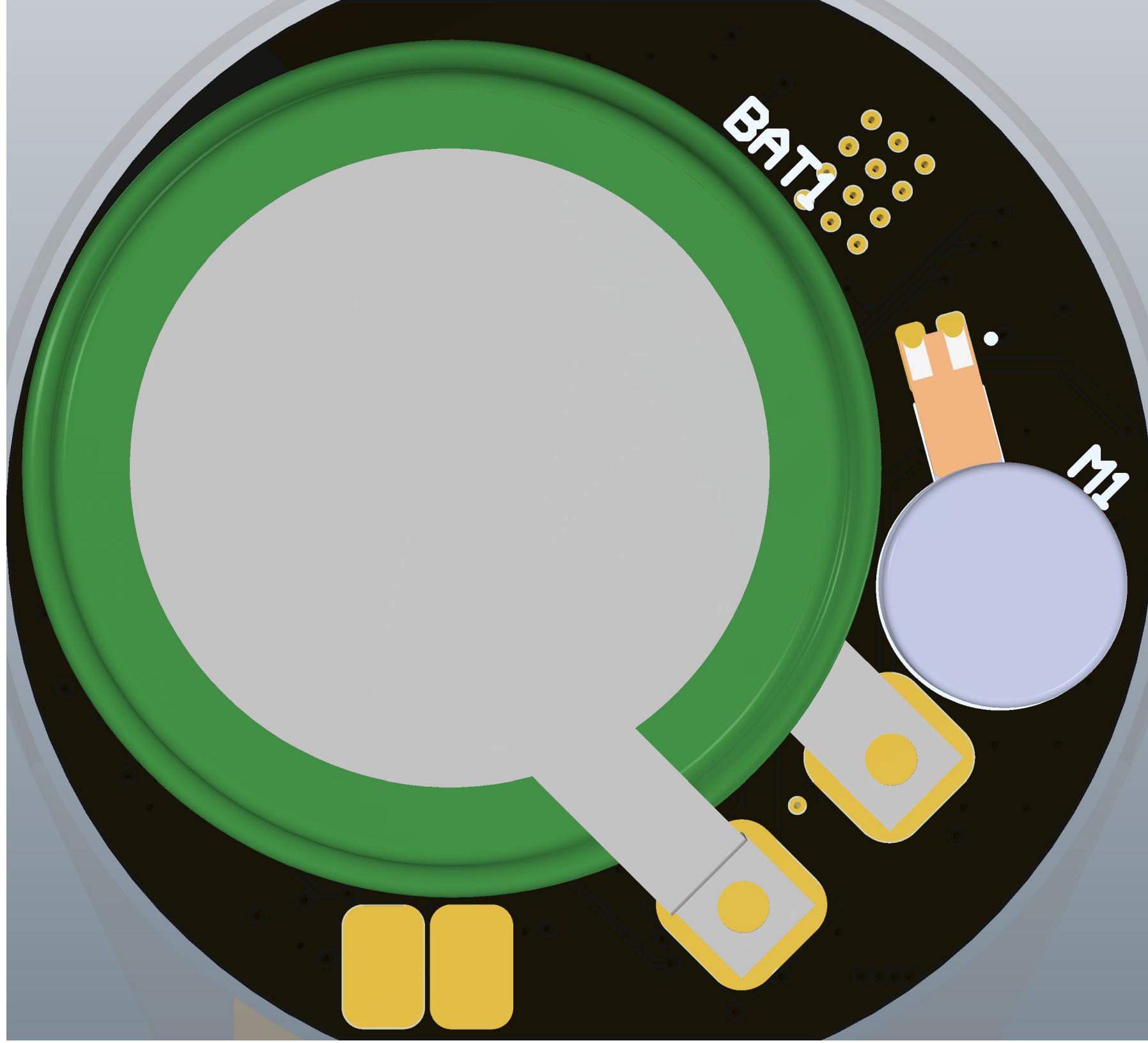
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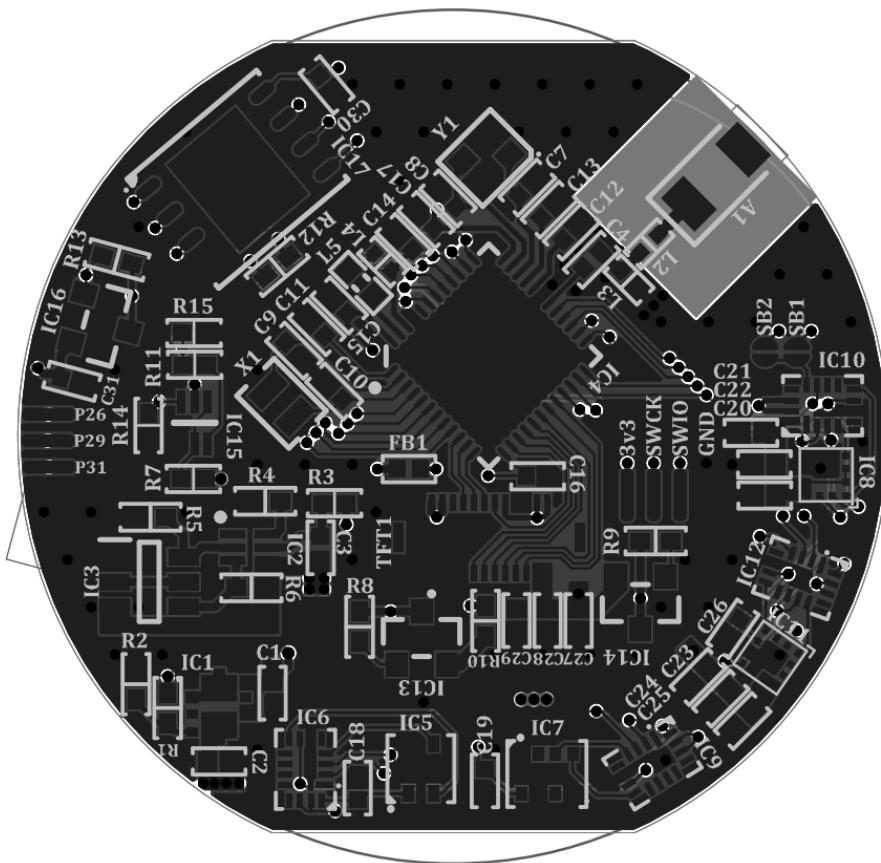
Title: Vibration Motor			
Size: A4	Revision: 1	Sheet * of *	Date: 2/23/2022
Project: SmartWatch.PrjPcb			SAKARYA / TURKEY
File: P:\SmartWatch\HW\SmartWatch\Schematic\{6} VibrationMotor.SchDoc			YiLDiZ IoT Elperek Mahallesi Saray Sokak, No:12 UMSAL LOGO (YILDIZLI)

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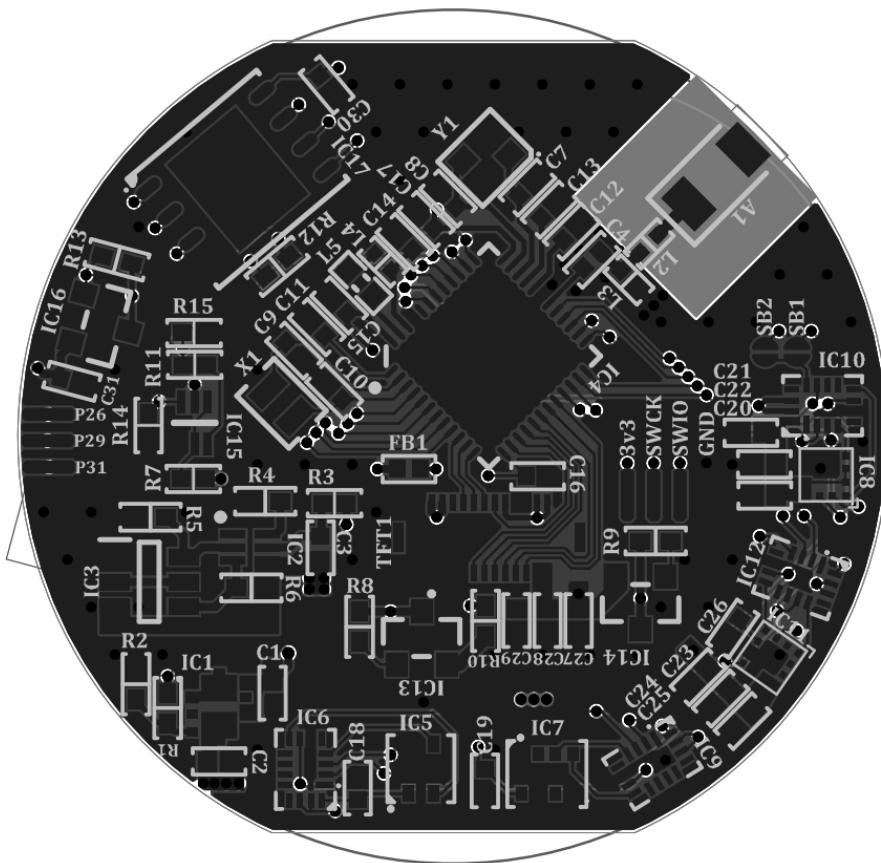




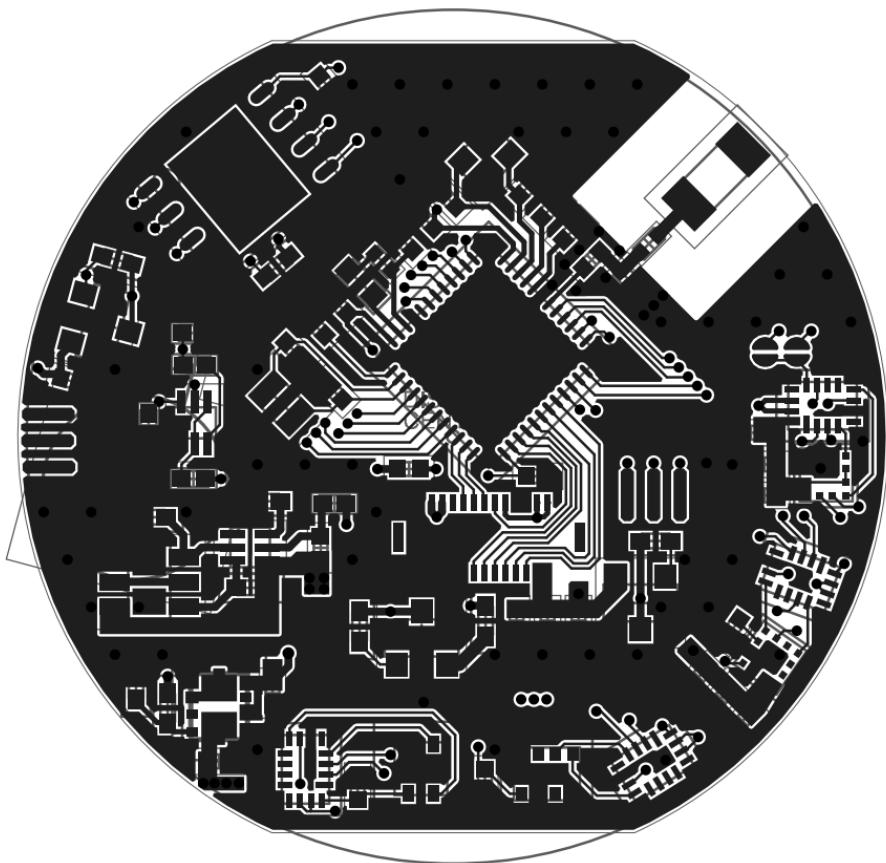
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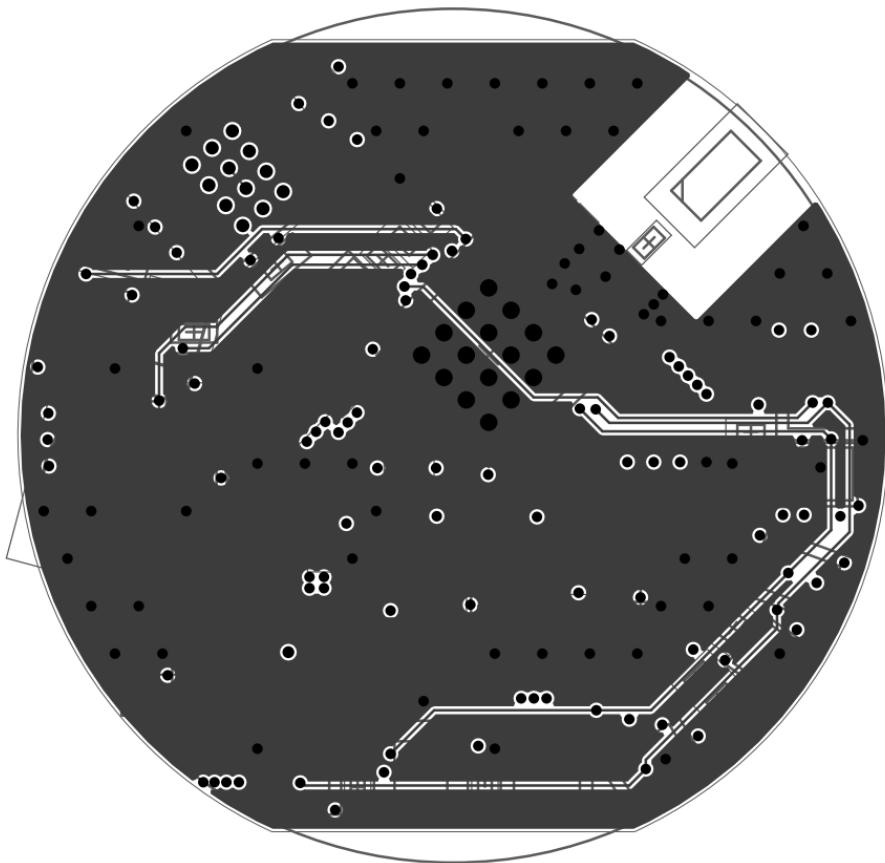
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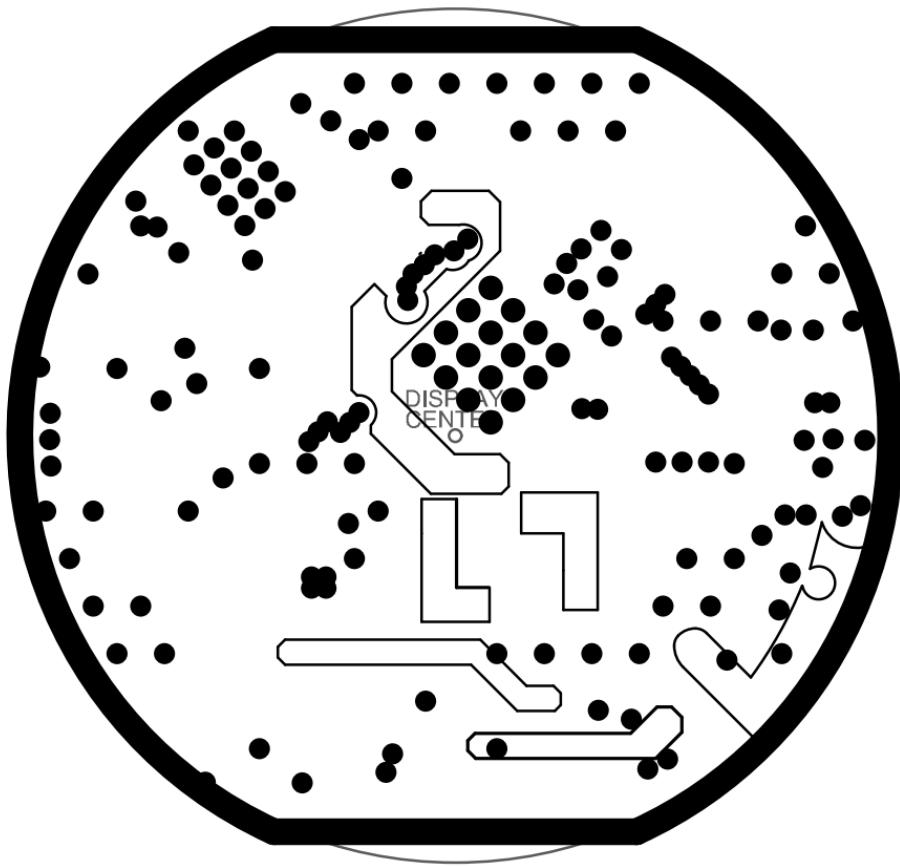
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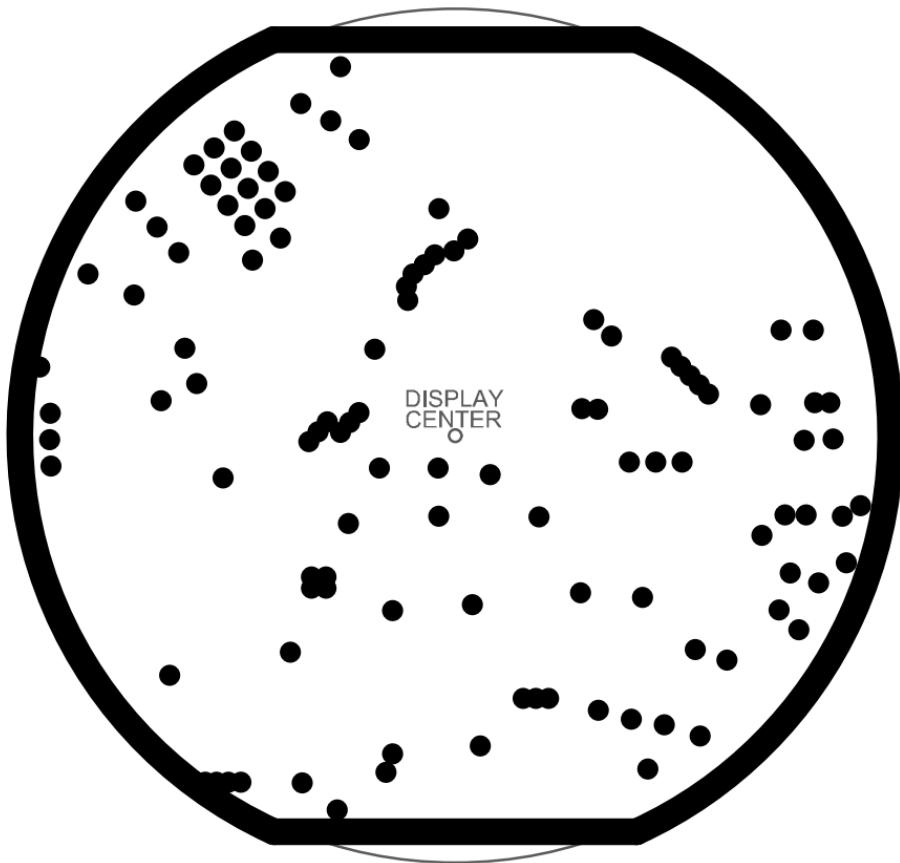
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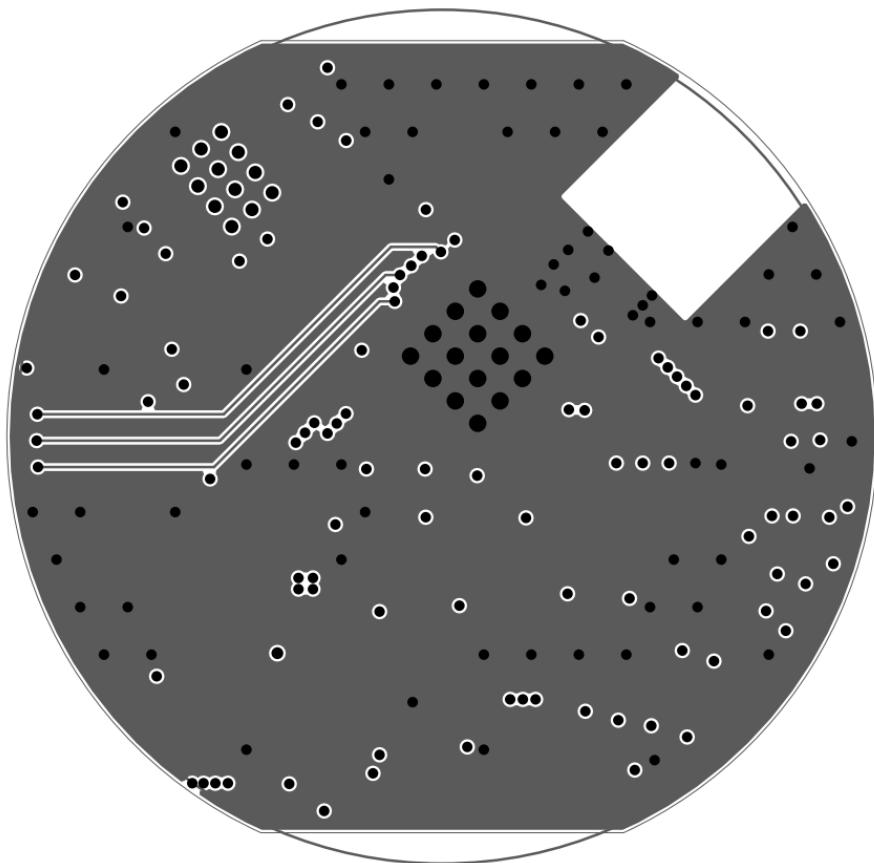
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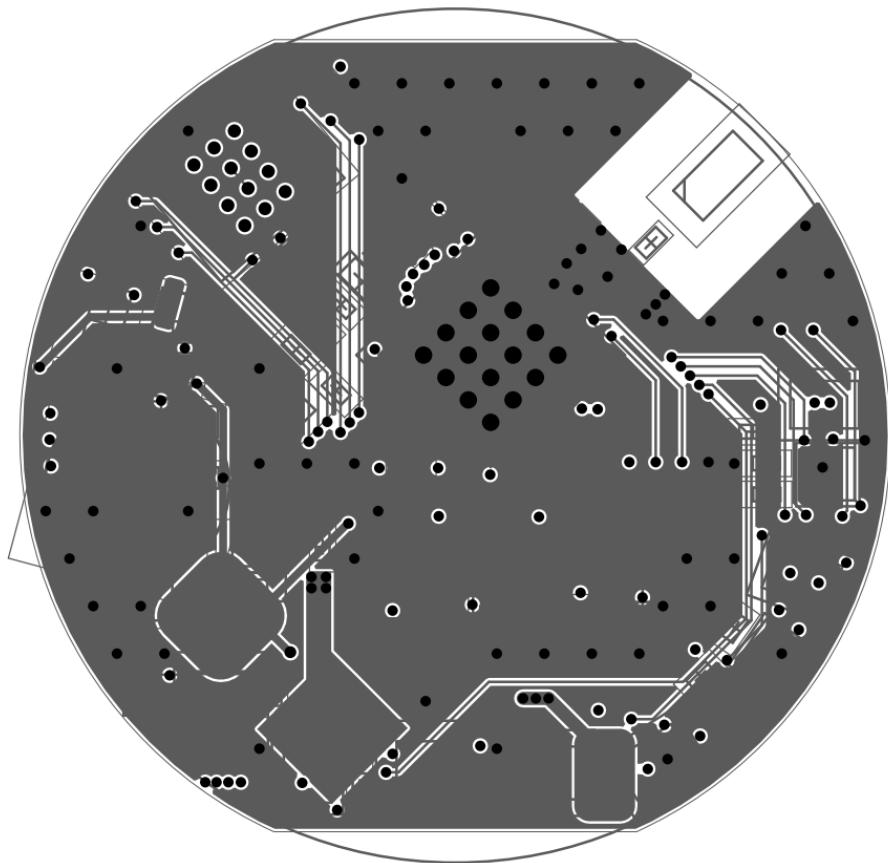
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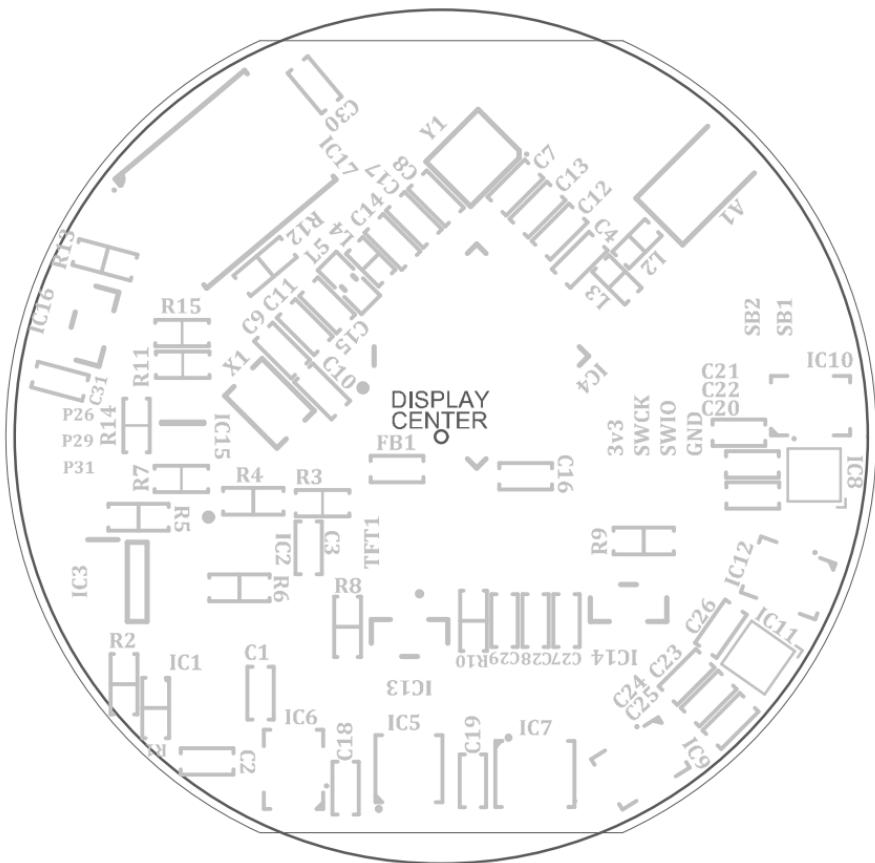
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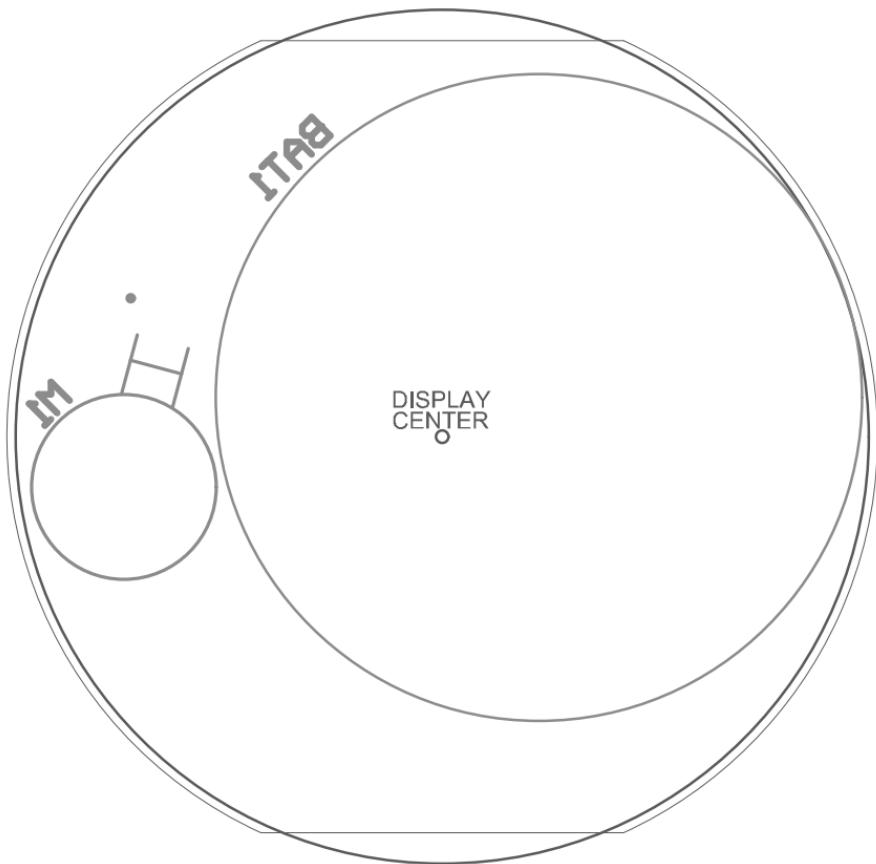
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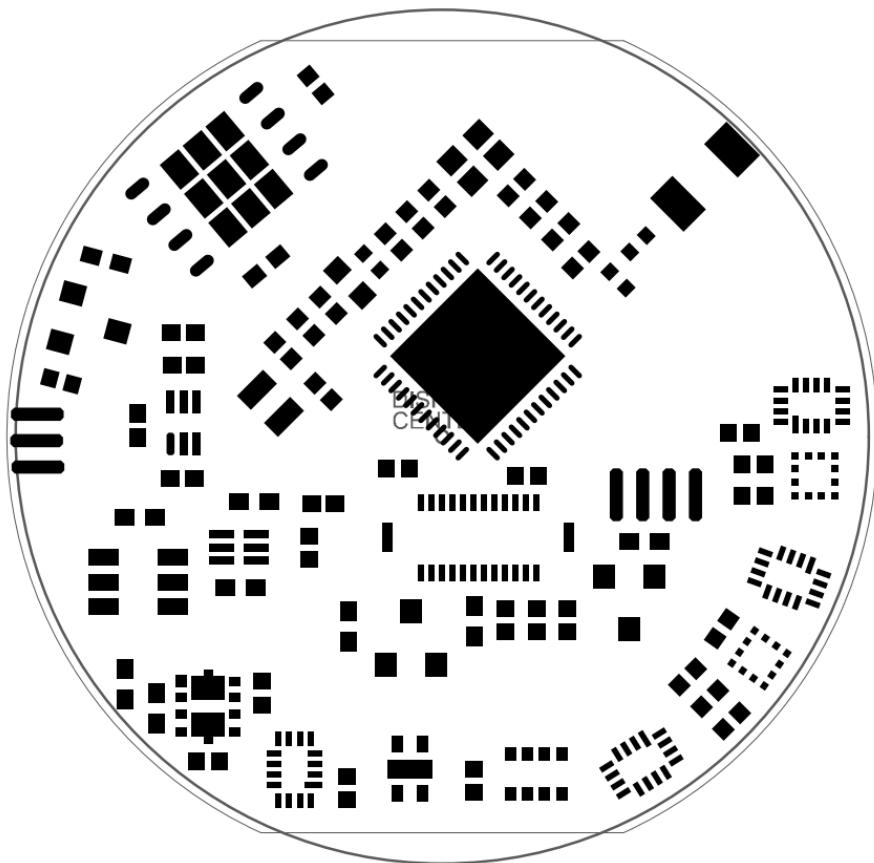
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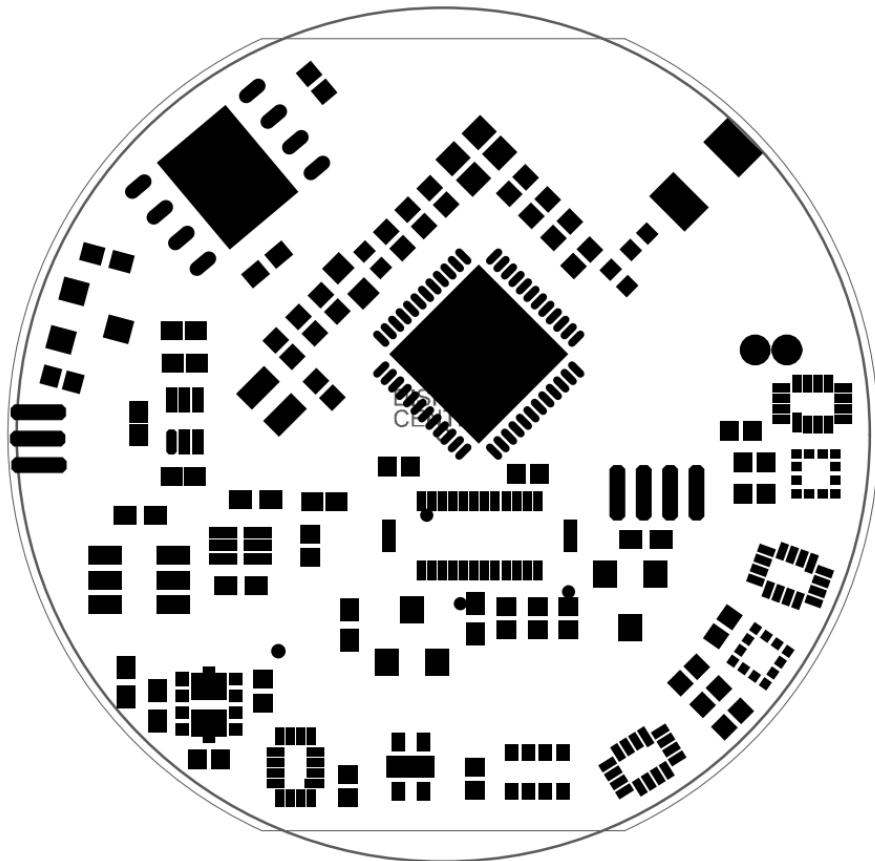
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ACTIVE AREA



ACTIVE AREA



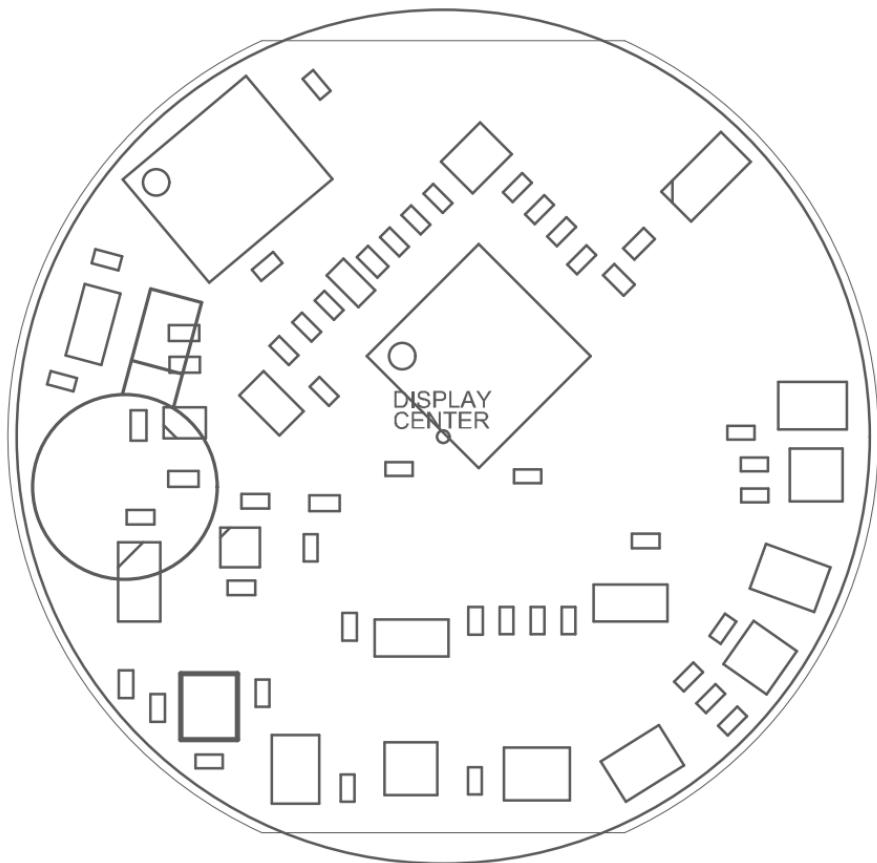
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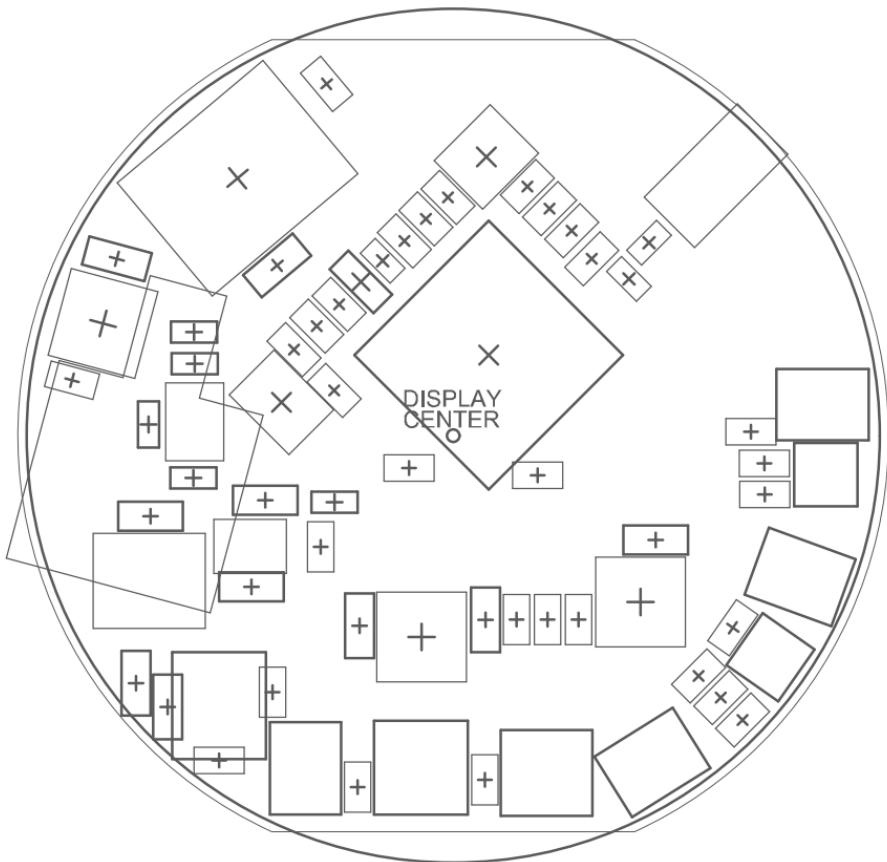
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DISPLAY
CENTER
○

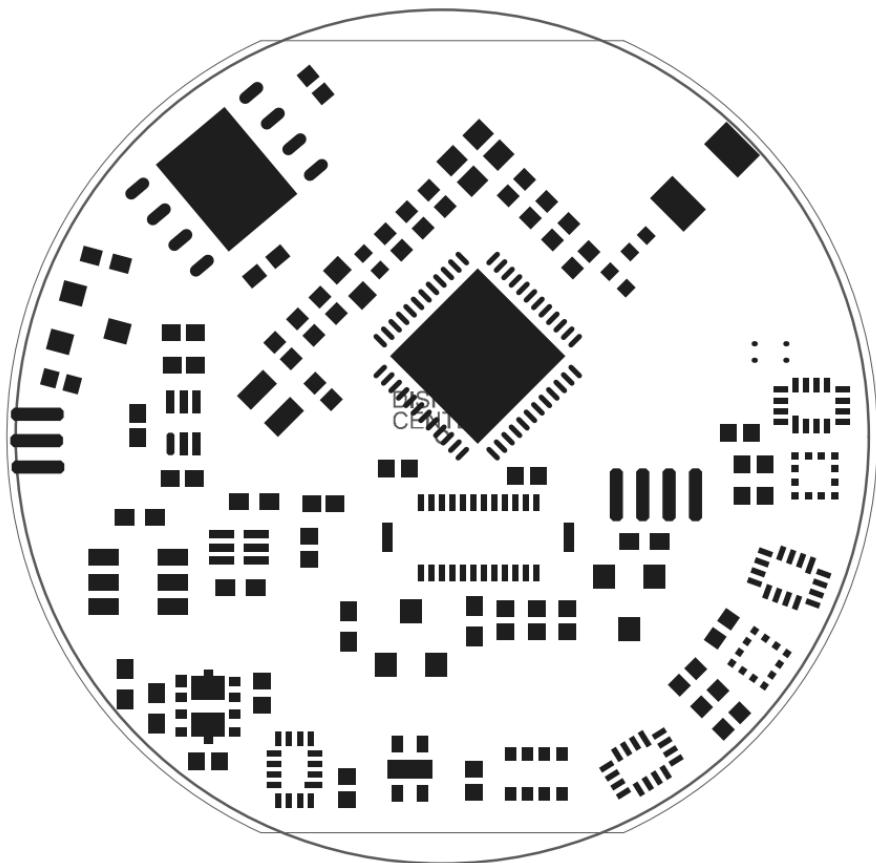
ACTIVE AREA



ACTIVE AREA



ACTIVE AREA



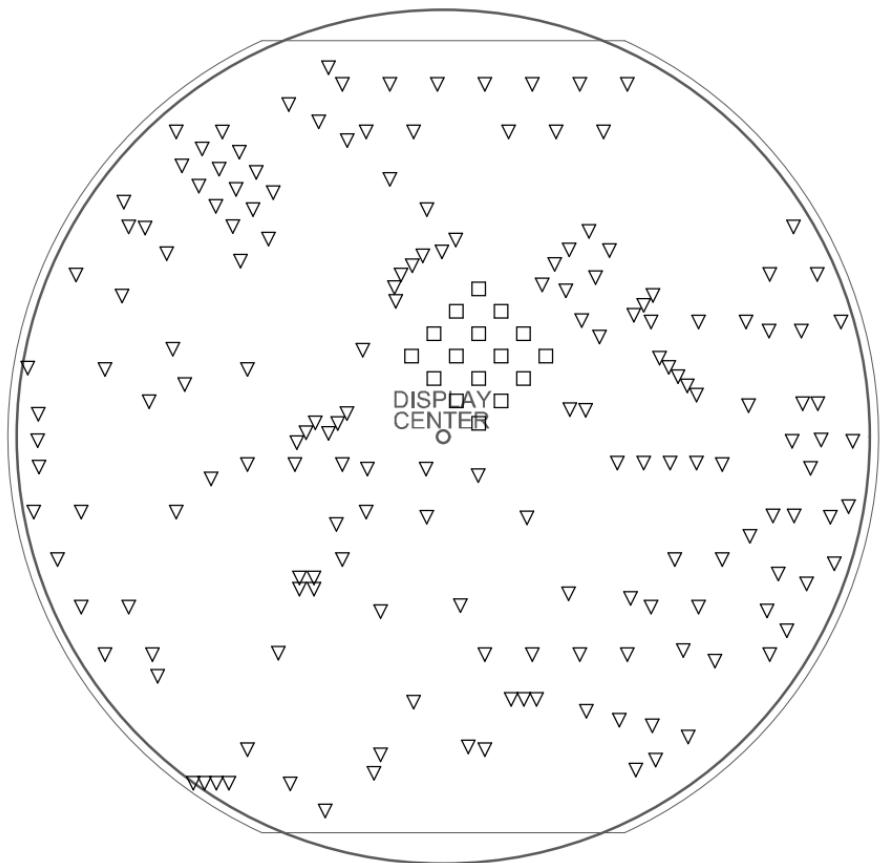
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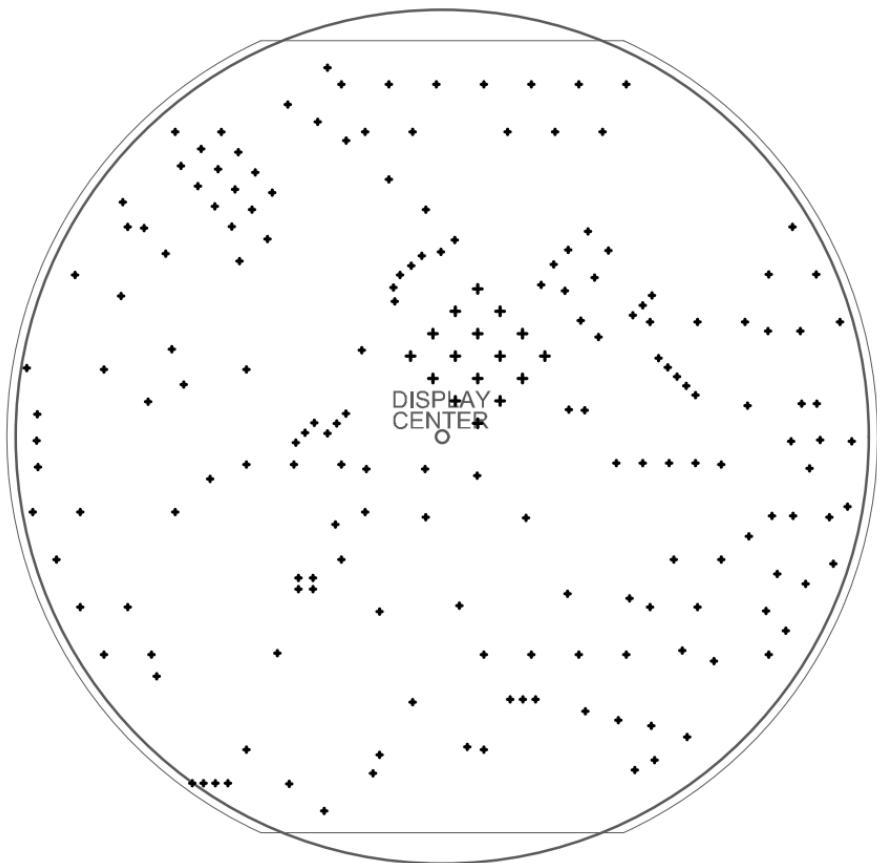
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ACTIVE AREA



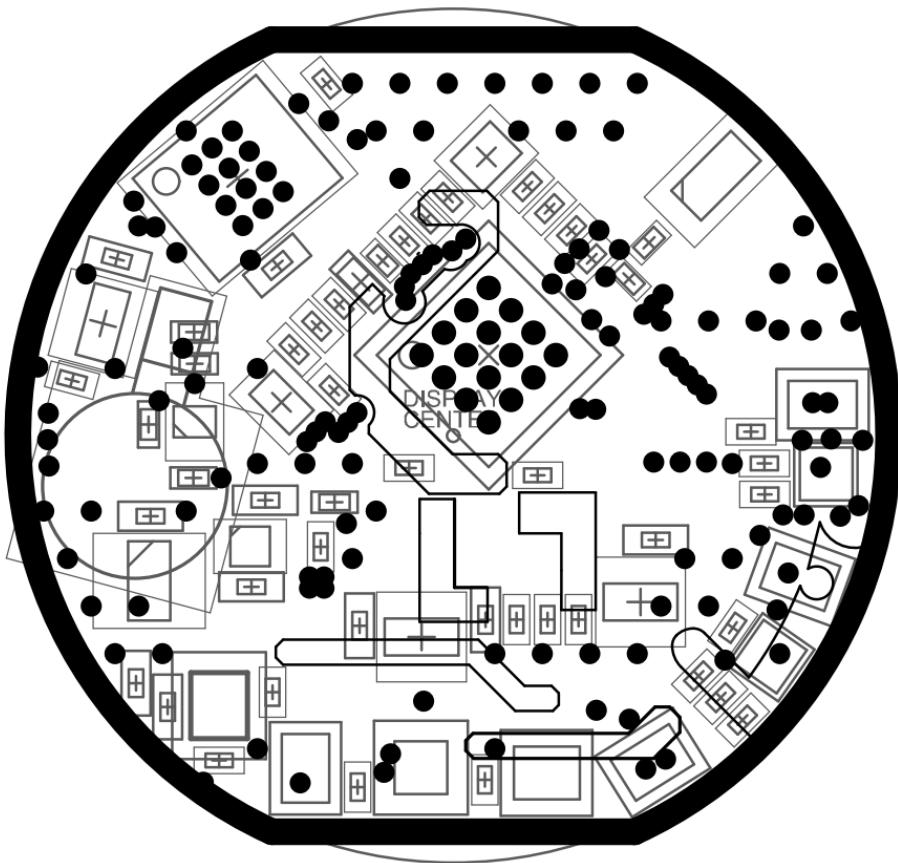
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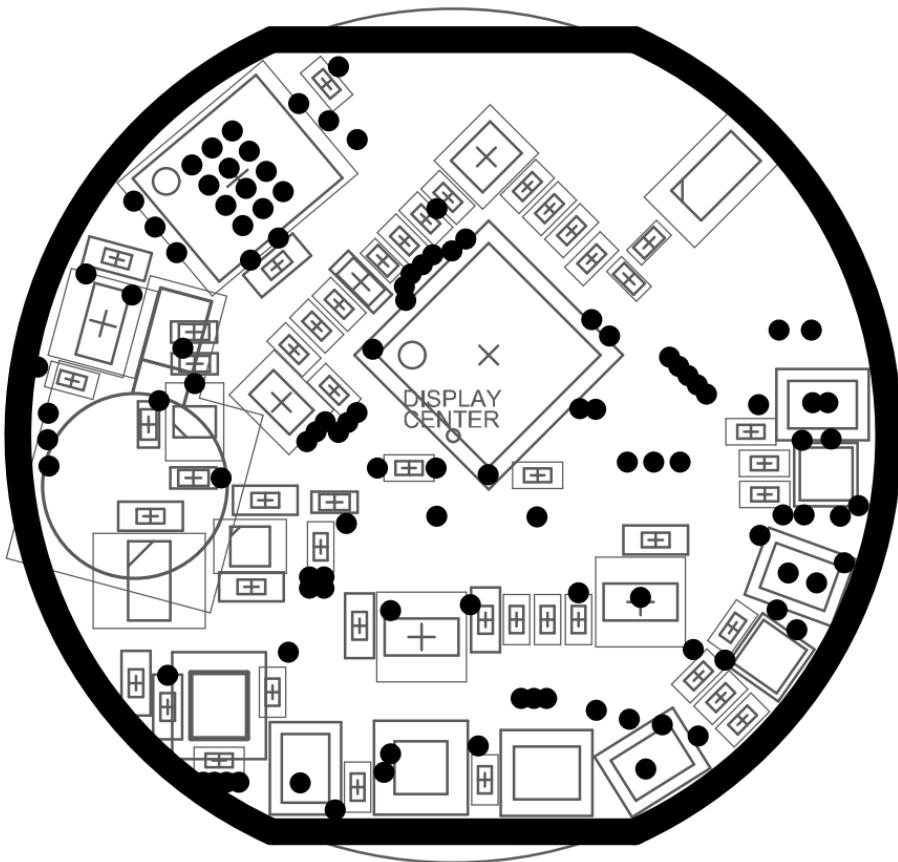
Board Stack Report

Stack Up		Layer Stack			
Layer	Board Layer Stack	Name	Material	Thickness	Constant
1		Top Paste			
2		Top Overlay			
3		Top Solder	Solder Resist	0.010mm	3.5
4		Top Layer	Copper	0.035mm	
5		Prepreg 1	PP-006	0.100mm	4.1
6		Layer 1	Copper	0.018mm	
7		Core 1	Core-009	0.565mm	4.5
8		3v3	Copper	0.018mm	
9		Prepreg 2		0.127mm	3.96
10		GND	Copper	0.018mm	
11		Core 2		0.565mm	4.29
12		Layer 2	Copper	0.018mm	
13		Prepreg 3	PP-006	0.071mm	4.1
14		Bottom Layer	Copper	0.035mm	
15		Bottom Solder	Solder Resist	0.010mm	3.5
16		Bottom Overlay			
17		Bottom Paste			
	Height : 1.588mm				

ACTIVE AREA



ACTIVE AREA



Bill of Materials

Bill of Materials for Project [SmartWatch.PrjPcb] (No PCB Document Selected)

Source Data From: SmartWatch.PrjPcb
 Project: SmartWatch.PrjPcb
 Variant: None

Creation Date: 2/23/2022 2:01 PM
 Print Date: 23-Feb-22 2:01:38 PM

Production Quantity: 1
 Currency: USD

Comment	Designator	Footprint	Description	Supplier 1	Supplier Part Number 1	Manufacturer Part Number	Pricing 1	Quantity	Price	Supplier Subtotal 1
2450AT18B100E	A1	ANTC3216X140N	Antenna Chip -0.5dBt	Digi-Key	712-1006-1-ND	2450AT18B100E	1=0.56000,	1	\$	-
RJD2430C1ST1	BAT1	ILLINOIS RJD2430C1	Rechargeable Ion	Digi-Key	1572-1630-ND	RJD2430C1ST1		1	\$	-
10uF	C1, C2, C20, C23,	CAP 0402/1005	0402 10 uF 6.3 V ±20	Digi-Key	490-13238-1-ND	GRM155R60J106ME15D	1=0.18000,	5	\$	-
100nF	C3, C11, C12, C13,	CAP 0402/1005	Cap Ceramic 0.1uF	Digi-Key	1276-1043-6-ND	CL05A104KA5NNNC	1=0.10000,	17	\$	-
1.2pF	C4	CAP 0402/1005	Cap Ceramic 1.2pF	Digi-Key	712-1268-1-ND	500R07S1R2BV4T	1=0.19000,	1	\$	-
8pF	C7, C8	CAP 0402/1005	0402 8 pF 50 V ±0.25	Digi-Key	490-3109-1-ND	GJM1555C1H8R0CB01D	1=0.12000,	2	\$	-
9pF	C9, C10	CAP 0402/1005	Cap Ceramic 9pF 50V	Digi-Key	1276-1616-1-ND	CL05C090CB5NNNC	1=0.10000,	2	\$	-
1uF	C14	CAP 0402/1005	Ceramic capacitor	Digi-Key	1276-1067-1-ND	CL05A105K05NNNC	1=0.10000,	1	\$	-
220nF	C26	CAP 0402/1005	Ceramic capacitor	Digi-Key	1276-1176-1-ND	CL05B224K05NNNC	1=0.10000,	1	\$	-
XCL209F083DR	IC1	TOREX XCL209F083	Conv DC-DC 1.8V to	Digi-Key	893-1172-1-ND	XCL209F083DR	1=1.45000,	1	\$	-
BQ29705DSER	IC2	TI S-PDSO-N6 150x1	Li-Ion/Li Polymer	Digi-Key	296-39946-1-ND	BQ29705DSER	1=0.59000,	1	\$	-
DMG6968UDM-7	IC3	DIODES SOT-26-6	Transistor MOSFET	Digi-Key	DMG6968UDM-7DICT-ND	DMG6968UDM-7	1=0.51000,	1	\$	-
NRF528xx	IC4	QFN40P600X600X90-48N				NRF52832-QFAB-R		1	\$	-
ENS210-LQFM	IC5	SCIONSENSE ENS2	ENS210 Series 3.6V	Digi-Key	2618-ENS210-LQFMCT-ND	ENS210-LQFM	1=2.87000,	1	\$	-
NX3DV2567GU,115	IC6, IC9, IC10, IC12	NXP XQFN16	NX3DV2567 Series	Digi-Key	568-5206-1-ND	NX3DV2567GU,115	1=0.98000,	4	\$	-
ICP-10111	IC7	TDK ICP10111	Barometric	Digi-Key	1428-1145-1-ND	ICP-10111	1=4.26000,	1	\$	-
LIS2DTW12TR	IC8	ST LGA-12 2x2x0.7	3-axis MEMS	Digi-Key	497-19047-1-ND	LIS2DTW12TR	1=3.37000,	1	\$	-
LIS2MDLTR	IC11	ST LGA-12 2x2x0.7	LIS2MDL Series 3.6V	Digi-Key	497-17588-1-ND	LIS2MDLTR	1=3.07000,	1	\$	-
DMP31D0U-7	IC13, IC14, IC16	DIODES SOT-23-3	MOSFET P-Ch 30V	Digi-Key	DMP31D0U-7DICT-ND			3	0.09	\$ 0.27
DMC2990UDJ-7	IC15	DIODE SOT-563	Trans MOSFET N/P-	Digi-Key	DMC2990UDJ-7DICT-ND	DMC2990UDJ-7	1=0.45000,	1	\$	-
W25Q128JVPIIM	IC17	WINBOND WSON-8	NOR Flash Serial	Digi-Key	W25Q128JVPIIM-ND	W25Q128JVPIIM	1=1.97000,	1	\$	-
3.3nH	L2	IND 0402/1005 RF	Inductor RF Chip Multi	Digi-Key	712-1416-1-ND	L-07C3N3SV6T	1=0.10000,	1	\$	-
2.7nH	L3	IND 0402/1005 RF	Inductor RF Chip Multi	Digi-Key	712-1415-1-ND	L-07C2N7SV6T	1=0.10000,	1	\$	-
15nH	L4	IND 0402/1005 RF	Ind High Frequency	Avnet	HK100515NJ-T	HK100515NJ-T		1	\$	-
10uH	L5	IND 0603/1608 RF	Inductor Chip	Digi-Key	587-1714-1-ND	LBMF1608T100K	1=0.25000,	1	\$	-
C0720B001F	M1	VYBRONICS C0720B	DC Motor Vibration,		1670-VC0720B001F-ND	C0720B001F		1	\$	-
510kR	R1	RES 0402/1005	Surface Mount Chip	Digi-Key	311-510KLRCT-ND	RC0402FR-07510KL	1=0.10000,	1	\$	-
200kR	R2	RES 0402/1005	Res General Purpose	Digi-Key	311-200KLRCT-ND	RC0402FR-07200KL	1=0.10000,	1	\$	-
330R	R3, R10	RES 0402/1005 RF	Res Thick Film 0402	Digi-Key	1292-WR04X3300FTLCI-ND	WR04X3300FTL	1=0.10000,	2	\$	-
2.2kR	R4	RES 0402/1005	Res General Purpose	Digi-Key	A129631CT-ND	CRGCQ0402F2K2	1=0.10000,	1	\$	-
5.1MR	R5, R6	RES 0402/1005	Res Thick Film 0402	Digi-Key	RMCF0402FT5M10CT-ND	RMCF0402FT5M10	1=0.10000,	2	\$	-
1MR	R7, R11, R14	RES 0402/1005 RF	Res Thick Film 0402	Digi-Key	A129663CT-ND	CRGCQ0402F1M0	1=0.10000,	3	\$	-
10kR	R8, R9, R12, R13	RES 0402/1005	Res Thick Film 0402	Digi-Key	RMCF0402FT10K0DKR-ND, RMCF	RMCF0402FT10K0	1=0.10000,	4	\$	-
180kR	R15	RES 0402/1005 RF	Res General Purpose	Digi-Key	A129654CT-ND	CRGCQ0402F180K	1=0.10000,	1	\$	-
"	IIFT1	EASTRISE ER-IFFT1	ER-IFFT1.28-2 TFT					1	\$	-
32.768 kHz	X1	ABRACON ABS06	Crystal 32.7680KHZ	Digi-Key	2195-CM8V-T1A-32.768KHZ-9PF-2	CM8V-T1A-32.768KHZ-9PF-20PPM-TA-C	1=0.66000,	1	\$	-
32MHz	Y1	KYOCERA CX2016D	CRYSTAL	Digi-Key	1253-1586-1-ND			1	0.36	\$ 0.36
								71	\$	0.63

Approved Notes

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