

Arduino Nano

ARDUINO

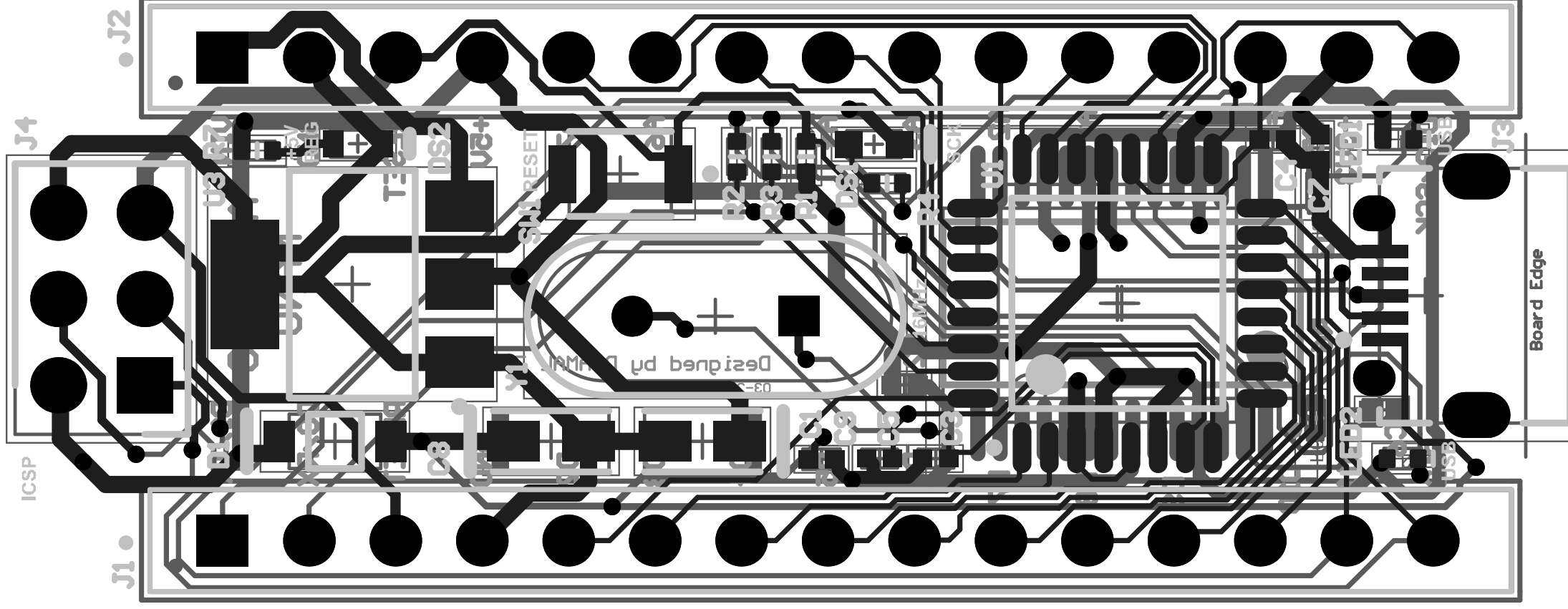
HEADERS

USB

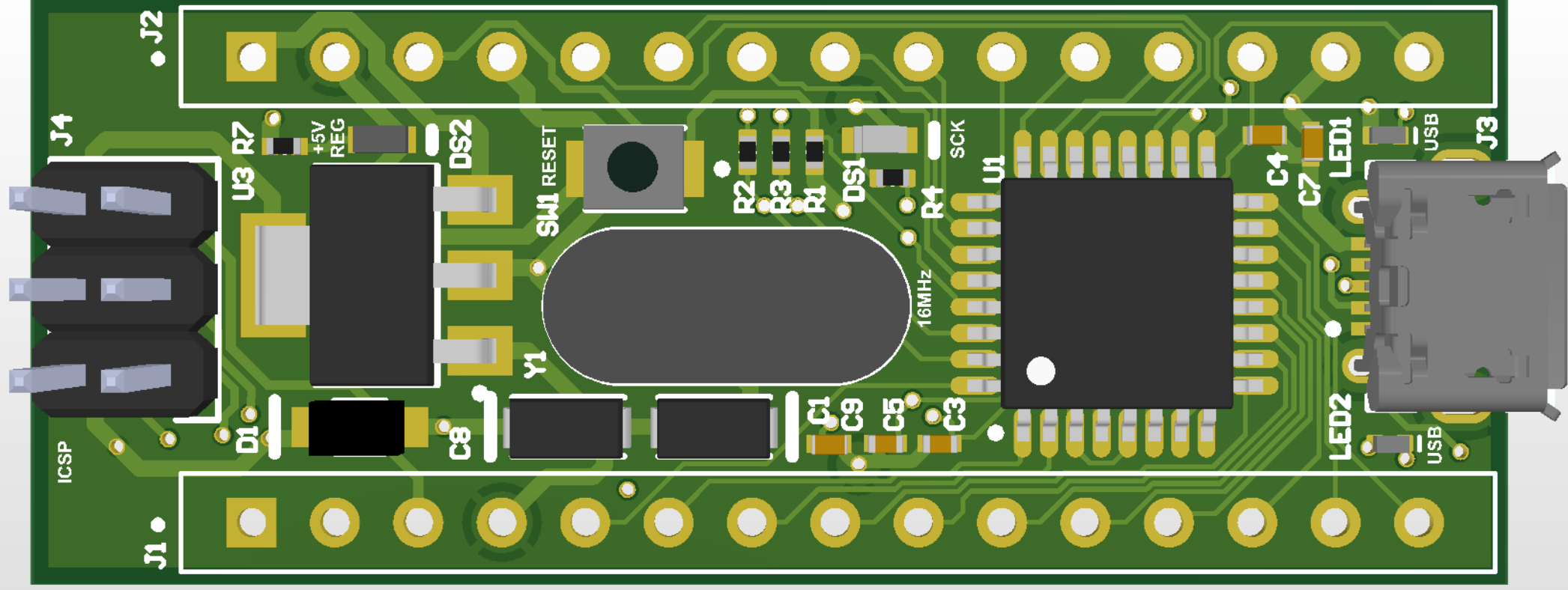
ICSP

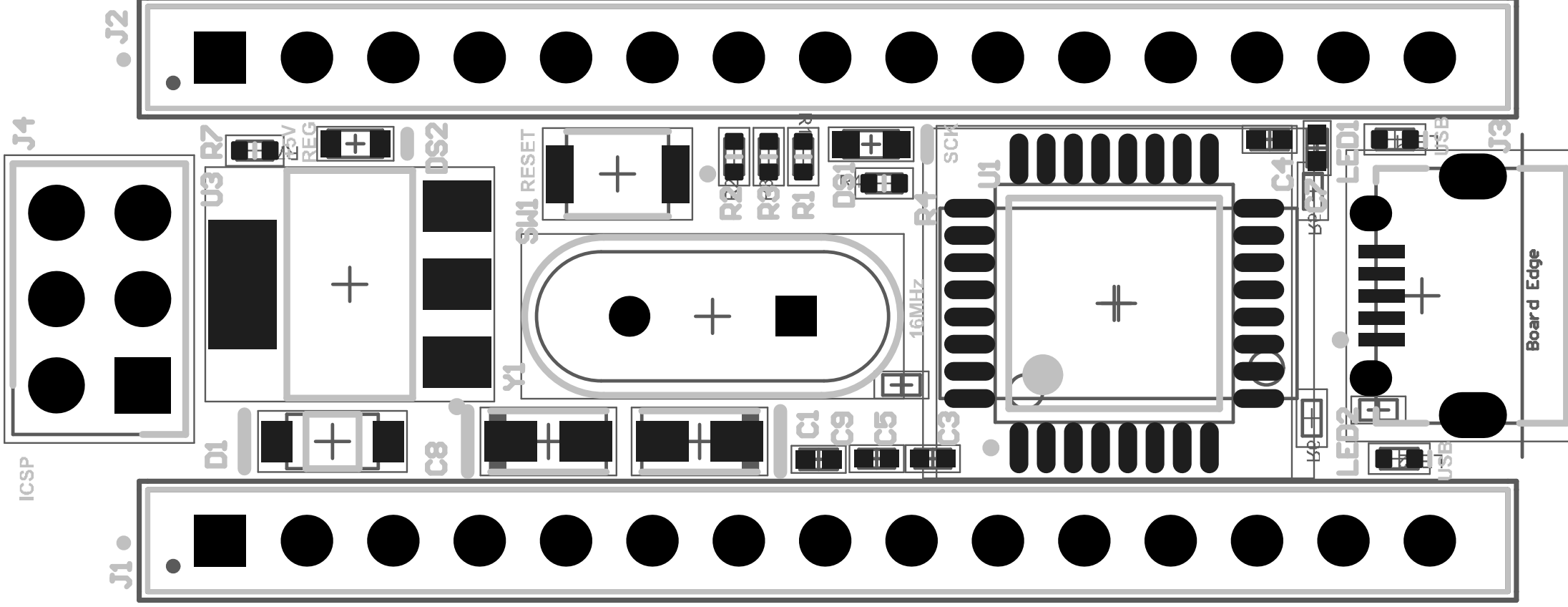
+5V AUTO SELECTOR

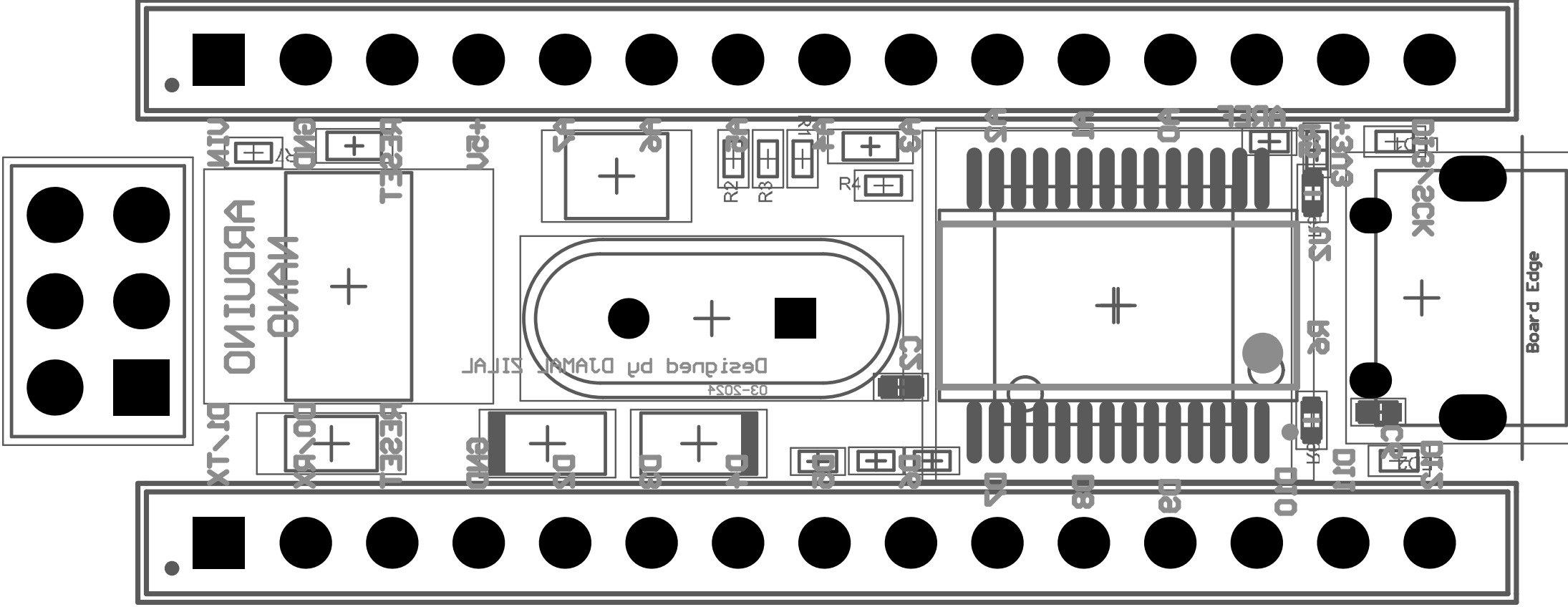
Title		
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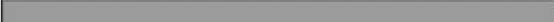






Comment	Description	Designator	Footprint	LibRef	Quantity
ECA1HM4R7	Aluminum Electrolytic Capacitor, 4.7 uF, +/- 20%, 50 V, -40 to 85 degC, 2-Pin THD, RoHS, Bulk	C1, C8	CAPPR55-200-1100X500X1200	CMP-001-00033-7	2
Capacitor 0.1 uF +/- 5% 16 V 0402	Chip Capacitor, 0.1 uF, +/- 5%, 16 V, 0402 (1005 Metric)	C2, C4, C6, C7, C9	CAPC1005X56X25LL10 T15	CMP-001-00001-6	5
Capacitor 10 pF +/- 0.25 pF 50 V 0402	Chip Capacitor, 10 pF, +/- 0.25 pF, 50 V, 0402 (1005 Metric)	C3, C5	CAPC1005X55X30LL05 T10	CMP-001-00011-6	2
MBR0520LT1G	Schottky Power Rectifier, 20 V, 5.5 A, -65 to 125 degC, 2-Pin SMD, RoHS, Tape and Reel	D1	ONSC-SOD-123-2-425-04_V	CMP-004-00003-2	1
HSMA-C190	LED Uni-Color Amber, 60 mW, 20 mA, -40 to 85 degC, 2-Pin SMD, RoHS, Tape and Reel	DS1	AVAG-HSMX-C190_V	CMP-007-00011-2	1
TLMB1100-GS08	Blue LED, 10 mA, 3.9 V, -40 to 100 degC, 2-Pin SMD (0603), RoHS, Tape and Reel	DS2	VISH-TLMX1100-2_V	CMP-007-00028-2	1
both parts are inseparated		J1, J2	PCBComponent_1	Header 15	2
ZX62D-B-5P8	Right Angle Receptacle Connector, Micro USB, 5 Position, Height 2.65 mm, -30 to 85 degC, RoHS, Tape and Reel	J3	HIRO-ZX62D-B-5P8_V	CMP-002-00043-2	1
M20-9720345	Connector	J4	HDRV6W64P254_2X3_762X508X864P	M20-9720345	1
QBLP595-R	Chip LED 0402, Red, 0.02 A, 2.0 to 2.5 V, -40 to 80 degC, 2-Pin SMD, RoHS, Tape and Reel	LED1	QTB-QBLP595_V	CMP-007-00040-3	1
QBLP595-IG	Chip LED 0402, Green, 0.02 A, 3.1 to 3.7 V, -40 to 80 degC, 2-Pin SMD, RoHS, Tape and Reel	LED2	QTB-QBLP595_V	CMP-007-00041-3	1
1KR2J	1K 0.063W 5% 0402 (1005 Metric) SMD	R1, R2, R3	RESC0402(1005)_L	CMP-009-00075-2	3
330R2J	330R 0.063W 5% 0402 (1005 Metric) SMD	R4, R5, R6, R7	RESC0402(1005)_L	CMP-009-00095-2	4
B3U-1000P	Tactile Switch, SPST-NO, 0.05 A, 12 V, -25 to 70 degC, 2-Pin SMD, RoHS, Tape and Reel	SW1	OMRON-B3U-1000_V	CMP-011-00000-2	1
ATMEGA328/P		U1	ATMEGA328/P	ATMEGA328/P	1
FT232RL-REEL	USB UART IC, -0.5 to 6 V, 24 mA, -40 to 85 degC, 28-Pin SSOP, RoHS, Tape and Reel	U2	FTDI-SSOP-28_M	CMP-015-00000-2	1
NCP1117ST50T3G	Low-Dropout Positive Fixed Voltage Regulator, 1 A, 5 V Vout, 0 to 125 degC, 4-Pin SOT-223, Pb-Free, Tape and Reel	U3	ONSC-SOT-223-4-318H-01_A_V	CMP-019-00031-3	1
HC-49US 16.000MHZ	Crystal, 16 MHz, +/- 30 ppm, 18 pF, -20 to 70 degC, 2-Pin THD	Y1	JPY-HC-49US	CMP-003-00005-2	1







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	0,40mil	3,5
4		Top Layer	Copper	1,40mil	
5		Dielectric 2	PP-006	2,80mil	4,1
6		Layer 1 (GND)	Copper	0,25mil	
7		Dielectric 1	FR-4	12,60mil	4,8
8		Layer 2 (PWR)	Copper	0,25mil	
9		Dielectric 3	PP-006	2,80mil	4,1
10		Bottom Layer	Copper	1,40mil	
11		Bottom Solder	Solder Resist	0,40mil	3,5
12		Bottom Overlay			
13		Bottom Paste			
Height : 22,31mil					

Design Rules Verification Report

Filename : D:\Professional\Project\GitHub\Arduino Nano\Arduino_Nano\PCB1.PcbDoc

Warnings 0
Rule Violations 0

Warnings	
Total	0

Rule Violations	
Clearance Constraint (Gap=4mil) (All),(All)	0
Short-Circuit Constraint (Allowed=No) (All),(All)	0
Un-Routed Net Constraint (All)	0
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=6mil) (Max=20mil) (Preferred=6mil) (All)	0
Power Plane Connect Rule(Relief Connect)(Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4)	0
Hole Size Constraint (Min=1mil) (Max=100mil) (All)	0
Hole To Hole Clearance (Gap=6mil) (All),(All)	0
Minimum Solder Mask Sliver (Gap=4mil) (All),(All)	0
Silk To Solder Mask (Clearance=4mil) (IsPad),(All)	0
Silk to Silk (Clearance=6mil) (All),(All)	0
Net Antennae (Tolerance=0mil) (All)	0
Height Constraint (Min=0mil) (Max=1000mil) (Preferred=500mil) (All)	0
Total	0