

Date	Description	Modified by
2021.??.??. MALT24VIV00	First	marrob
2021.??.??. MALT24VIV01	- Power LED hozzáadva - Föld kitöltés javítva a P4 körül - Project név változott	marrob
2021.10.06. MALT24VIV02	- X1 tükrözési hibája javítva - SOT-23 footprint javítva, kisebb lett - Enable X2 csatlakozó és funkció hozzáadva - Földkitöltés javítva - 10mil-es track több helyen 8-ra változott	

OHMMETER - HISTORY (MRES181106)

Project: MRES181106

Author: Margit Róbert

Size: A4

Date: 10/12/2021

Variant:[No Variations]

Checked by:

Number: 1

Time: 5:19:22 PM

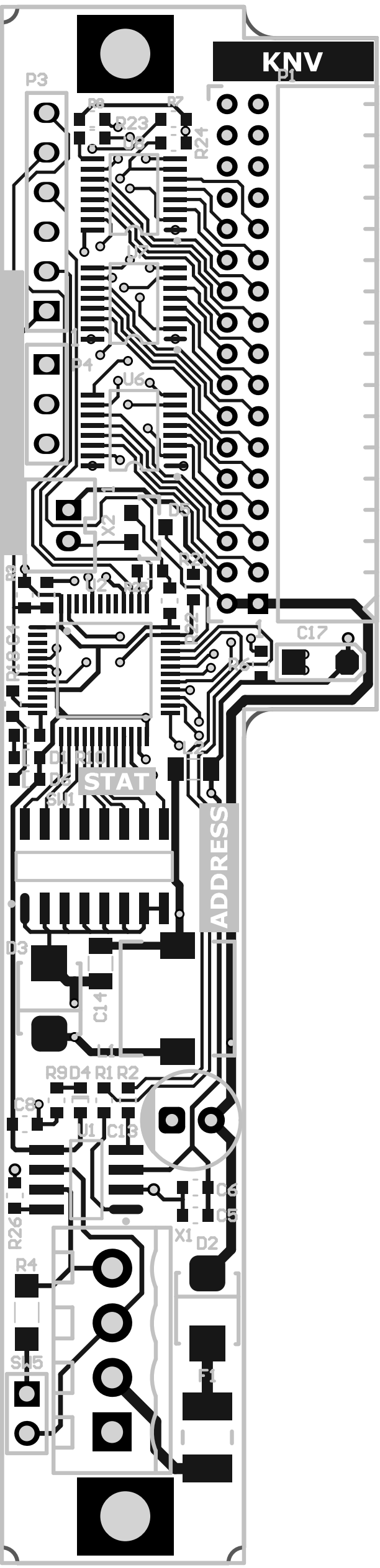
Revision: 1

Sheet 1 of 5

Konvolúció

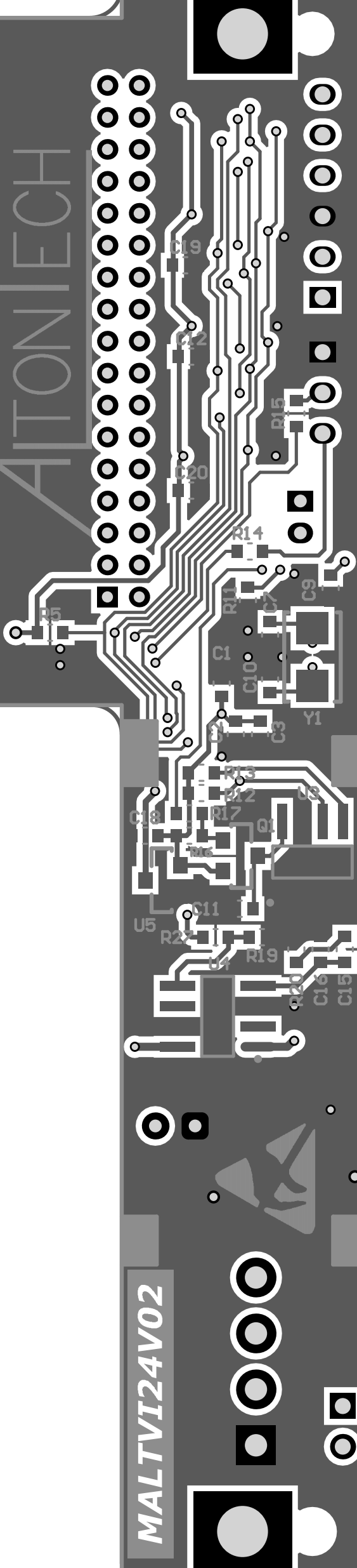
Support:
marrob50hz@gmail.com

File: D:\@@@\!ProjectS\MALT191104\MALT24VT\Circuit\MALT24V1-History.SchDoc



ALTONTECH

MALTVI24V02



Comment	Description	Designator	Quantity	Supplier	Manufacturer	ManufacturerPartNo
1nF	Capacitor, 1nF, 50V, 5%, NP0, SMT, 0603	C1	1	LOM-82-06-33;LOM-82-09-55;	YAG	CC0603RNP09BNI02
100nF	Capacitor, 100nF, 50V, 10%, X7R, SMT, 0603	C2, C4, C6, C8, C9, C11, C12, C19, C20	9	LOM-82-03-47;TME-CC0603KRX7R98B104;	YAG	CC0603KRX7R98B104
22uF	Capacitor, 22uF, 6.3V, 20%, XSR, SMT, 0603	C3	1	LOM-82-09-23;TME-CL10A226MQ8NRNCI;	Samsung	CL10A226MQ8NRNC
1uF	Capacitor, 1uF, 16V, 10%, X7R, SMT, 0603	C5, C18	2	LOM-82-06-80;TME-CC0603KRX7R7105	YAG	CC0603KRX7R7105
22pF	Capacitor, 22pF, 50V, 5%, NP0, SMT, 0603	C7, C10	2	LOM-82-02-18	YAG	CC0603RNP09BN220
27uF	Electrolytic Capacitors, 27uF, 35V, 20%, THT, 6.3x7mm 2.5mm	C13	1	FAR-1895676;	NICHICON	UPW1V1270MD01TD
47uF	Capacitor, 47uF, 6.3V, 20%, XSR, SMT, 0805	C14	1	LOM-82-08-66;TME-CL21A476MQYNNNG-FAR-2362109	SAM	CL21A476MQYNNNE
22nF	Capacitor, 22nF, 50V, 10%, X7R, SMT, 0603	C15	1	LOM-82-06-91;	SAMSUNG	CC0603KRX7R98B23
220pF	Capacitor, 220pF, 50V, 10%, NP0, SMT, 0603	C16	1	LOM-82-13-70;	SAMSUNG	CL10C221B8BNND
10uF/16V	Tantalum Capacitors, 10uF, 16V, 10%, 30HM, SMT, A	C17	1	TME-TAJA106K010R;FAR-1432339RL;RSC-699-2848;LOM-92-00-77	AVX	TAJA106K016R
HL-PST-1608U51GC	LED, Green, SMT, 0603	D1	1	LOM-95-03-80	Hongli Tronic	HL-PST-1608U51GC
STPS340U	Diode, SMT, DO-21AAA	D2, D3	2	FAR-9802548;LOM-83-02-19;TME-STPS340U	STMICROELECTRONICS	STPS340U
HL-PST-1608S31YC	LED, Yellow, SMT, 0603	D4	1	LOM-95-03-79	Hongli Tronic	HL-PST-1608S31YC
BA570-05	Diode, SMT, SOT-23	D5	1	LOM-83-01-24;FAR-2849621;TME-BA570-05;	NXP Semiconductor	BA570-05
HL-PST-1608S9AC	LED, Red, SMT, 0603	D6	1	LOM-95-03-78	Hongli Tronic	HL-PST-1608S9AC
MF1100mA/33V	Multifuse, 1100mA, 33V, SMT, 1812	F1	1	LOM-44-03-25;TME-1812L110/33MR;MOU-576-1812L110/33MR	Littelfuse	1812L110/33MR
SLF7045T-330M1R1-H	Inductor, 33uH, 1A, SMT, 7 x 7 x 4.5mm	L1	1	LOM-93-04-11;FAR-2215717;	TDK	SLF7045T-330M1R1-H
C805YTH101	Filter, 3A, SMT, 0805	L2	1	LOM-93-03-09;	VIKING	C805YTH101
SQT-117-01-F-D-RA	Connector PCB Receptacle SQT, 2mm, 2x17, 90, THT	P1	1	MOUS-200-SQT11701FDRA;	SAMTEC	SQT-117-01-F-D-RA
PHSS-40-6/3	Connector Pin Strip, 40/6, 2.54, 180, Male, THT	P3	1	LOM-43-00-73	T&T CONNECTION	PHSS-40-6/3
PHSS-40-6/3	Connector Pin Strip, 40/3, 2.54, 180, Male, THT	P4	1	LOM-43-00-73	T&T CONNECTION	PHSS-40-6/3
SPH-002T-P0.55	Contact, PH, 24...30WG	PC1, PC2	2	LOM-43-00-25;TME-SPH-002T-P0.55;TME-NXG-T	Gold Star;JST;NINGI	NCT200S-T2430;SPH-002T-P0.55;NXG-T
BLZF 3.5/4	Terminal Block, 3.5mm, 4, 180, wire	PW1	1	FAR-1179253;	WEIDMULLER	BLZF 3.5/4
PHR-2	Connector Plug, Female, 1x2Way, 2mm	PW2	1	LOM-43-17-34;TME-PHR-2;TME-NXG-02;	Gold Star;JST;NINGI	NCH200S-02;NXG-02;NXG-02
SI2307CDS	MOSFET, P, SMD, SOT-23	Q1	1	LOM-86-03-40;FAR-1779262;TME-SI2307CDS-T1-GE3	VISHAY	SI2307CDS
470R	Resistor, 470R, 0.1W, 1%, SMT, 0603	R1, R2, R14, R15, R17, R23	6	LOM-80-31-61;TME-CQ0603-470R-1%;	VIKING	WR06X4700FTL
10K0	Resistor, 10K0, 0.1W, 1%, SMT, 0603	R3, R10, R11, R16, R25	5	CRCW060310K0KFTABC	ASJ	CR16-1002-FK
120R	Resistor, 120R, 0.25W, 1%, SMT, 1206	R4	1	LOM-80-10-15;	Viking Tech Corp	
2K20	Resistor, 2K20, 0.1W, 1%, SMT, 0603	R5, R8, R9, R12, R13, R18, R24, R26	8	LOM-80-11-80;TME-CRCW06032K20INTABC	VIKING	
180R	Resistor, 180R, 0.1W, 1%, SMT, 0603	R6, R7	2	LOM-80-14-36	VIKING	0603 1% CR-03FL7-180R
3K90	Resistor, 3K90, 0.125W, 1%, SMT, 0603	R19	1	LOM-80-11-66;TME-CRCW06033K90KFTABC	Viking Tech Corp.	CR-03FL7---3K90.1W
4K70	Resistor, 4K70, 0.1W, 1%, SMT, 0603	R20	1	LOM-80-11-85;TME-CRCW06034K70FKEA;	ROYAL OHM	CQ0603-4K7-1%
12K0	Resistor, 12K0, 0.125W, 1%, SMT, 0603	R21, R27	2	LOM-80-19-36;	Walsin	FM24W256-GTR
47K0	Resistor, 47K0, 0.1W, 1%, SMT, 0603	R22	1	LOM-80-11-72	VIKING	
AGH-8101	DIP Switch, 8, SPST, 180°, SMT, Custom	SW1	1	TME-AGH-8101; FAR-8774285;	OMRON	AGH-8101
PHSS-40-6/3	Connector Pin Strip, 40/2, 2.54, 180, Male, THT	SW5	1	LOM-43-00-73	T&T CONNECTION	PHSS-40-6/3
MCP2562-E/SN	Transceiver, CAN, 5V, SMT, SOIC-8	U1	1	TME-MCP2562-E/SN;MOU-579-MCP2562-E/SN;	MICROCHIP	MCP2562-E/SN
STM32F103C8T6	Processor, ARM Coretex M3, SMT, LQFP48	U2	1	TME-STM32F103C8T6;	ST	STM32F103C8T6
FM24W256-GTR	EEPROM, I2C, 256Kbit 32Kx8byte, SMT, SOIC-8	U3	1	FAR-2772912;TME-FM24W256-GTR;	CYPRESS SEMICONDUCTOR	FM24W256-GTR
LS970D	DC/DC, SMT, SOIC-8	U4	1	TME-LS970D;FAR-1077141;	STMicroelectronics	LS970D
MCP1700T330ZETT	LDO, SMT, SOT-23	U5	1	TME-MCP1700T330ZETT; FAR-1296592;	MCP	
TPIC6C596PWR	Shift Register, SMT, TSSOP-16	U6, U7, U8	3	FAR-3120899;	Texas Instruments	TPIC6C596PWR
SL 3.5/4/180G	Terminal Block, 3.5mm, 4, 180°, THT	X1	1	FAR-1121792;	WEIDMULLER	SL 3.5/4/180G
B2B-PH-K-5	Connector Socket, Male, 1x2Way, 2mm, 180°, THT	X2	1	LOM-43-17-35;TME-82B-PH-K-5;NXW-02;	Gold Star;JST;NINGI	NCW200S-02S 82B-PH-K-5;NXW-02
8MHz QCSB	Crystal Clock Oscillator, SMT, 5x3.2mm	Y1	1	FAR-2508596;	QANTEK TECHNOLOGY CORPORATION	QCSCB 00000 F18B23M

Design Rules Verification Report

Filename : D:\@@@!\ProjectS\MALT191104\MALT24V\Circuit\MALT24VIV02.PcbDoc

Warnings 0
Rule Violations 0

Warnings	
Total	0

Rule Violations	
Clearance Constraint (Gap=0.178mm) (All),(All)	0
Clearance Constraint (Gap=0.203mm) (HasFootprint("VSSOP-10")),(All)	0
Clearance Constraint (Gap=0.203mm) (HasFootprint("SSOP-28")),(All)	0
Clearance Constraint (Gap=0.203mm) (HasFootprint("DCK")),(All)	0
Clearance Constraint (Gap=0.203mm) (InNetClass("HV")),(All)	0
Clearance Constraint (Gap=0.203mm) (HasFootprint("LQFP-48")),(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=0.203mm) (Max=1.27mm) (Preferred=0.203mm) (All)	0
Power Plane Connect Rule(Direct Connect)(Expansion=0.508mm) (Conductor Width=0.254mm) (Air Gap=0.254mm)	0
Hole Size Constraint (Min=0.025mm) (Max=60mm) (All)	0
Hole To Hole Clearance (Gap=0.254mm) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.013mm) (HasFootprint("DCK")),(All)	0
Minimum Solder Mask Sliver (Gap=0.013mm) (HasFootprint("LQFP-48")),(All)	0
Minimum Solder Mask Sliver (Gap=0.013mm) (HasFootprint("TQFP64-E0.5")),(All)	0
Minimum Solder Mask Sliver (Gap=0.013mm) (HasFootprint("VSSOP-10")),(All)	0
Minimum Solder Mask Sliver (Gap=0.013mm) (HasFootprint("SOT-23-5")),(All)	0
Minimum Solder Mask Sliver (Gap=0.013mm) (HasFootprint("MSOP-12")),(All)	0
Minimum Solder Mask Sliver (Gap=0.013mm) (HasFootprint("C1206 - 4W")),(All)	0
Minimum Solder Mask Sliver (Gap=0.127mm) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.013mm) (HasFootprint("SSOP-28")),(All)	0
Silk To Solder Mask (Clearance=0.127mm) (IsPad),(All)	0
Silk to Silk (Clearance=0.102mm) (All),(All)	0
Net Antennae (Tolerance=0mm) (All)	0
Height Constraint (Min=0mm) (Max=100mm) (Preferred=12.7mm) (All)	0
Total	0