









MALT VI24V00

ALTONTECH

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	CC0603JRNPO9BN102
100nF	Capacitor, 100nF, 50V, 10%, X7R, SMT, 0603	C2, C4, C6, C8, C9, C11, C12, C19, C20	9	LOM-82-03-47;TME-CC0603KRX7R9BB104;	YAG	CC0603KRX7R9BB104
22uF	Capacitor, 22uF, 6.3V, 20%, X5R, 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	CC0603KRX7R7BB105
22pF	Capacitor, 22pF, 50V, 5%, NP0, SMT, 0603	C7, C10	2	LOM-82-02-18	YAG	CC0603JRNPO9BN220
27uF	Electrolytic Capacitors, 27uF, 35V, 20%, THT, 6.3x7mm 2.5mm	C13	1	FAR-1895676;	NICHICON	UPW1V270MD D1TD
47uF	Capacitor, 47uF, 6.3V, 20%, X5R, 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	CC0603KRX7R9BB223
220pF	Capacitor, 220pF, 50V, 10%, NP0, SMT, 0603	C16	1	LOM-82-13-70;	SAMSUNG	CL10C221JB8NNND
10uF/16V	Tantalum Capacitors, 10uF, 16V, 10%, 800mOHM, SMT, 8	C17	1	TME-1T4948106K016AT;FAR-T4948106K010AT;	KEMET	T4948106K016AT
HL-PST-1608U51GC	LED, Green, SMT, 0603	D1	1	LOM-95-03-80	Hongli Tronic	HL-PST-1608U51GC
STPS340U	Diode, SMT, DO-214AA	D2, D3	2	FAR-9803548;LOM-83-02-19;TME-STPS340U	STMICORELECTRONICS	STPS340U
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
CB05YTYH101	Filter, 3A, SMT, 0805	L2	1	LOM-93-03-09;	VIKING	CB05YTYH101
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
BLZF 3.5/4	Terminal Block, 3.5mm, 4, 180, wire	PW1	1	FAR-1179253;	WEIDMULLER	BLZF 3.5/4
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	4	LOM-80-15-13;TME-CRCW060310K0FKTABC ;	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, R12, R13, R18, R24, R26	7	LOM-80-11-80;TME-CRCW06032K20JNTABC ;	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-CRCW06033K90FKTABC ;	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	R27	1	LOM-80-19-36;	Walsin	Yageo Corp.
AGH-8101	DIP Switch, 8, SPST, 180°, SMT, Custom	SW1	1	TME-A6H-8101; FAR-8774285;	OMRON	A6H-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, 12C, 256Kbit 32Kx8byte, SMT, SOIC-8	U3	1	FAR-2772912;TME-FM24W256-GTR;	CYPRESS SEMICONDUCTOR	FM24W256-GTR
L5970D	DC/DC, SMT, SOIC-8	U4	1	TME-L5970D;FAR-1077141;	STMicroelectronics	L5970D
MCP1700T3302ETT	LDO, SMT, SOT-23	U5	1	TME-MCP1700T3302ETT; 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
8MHz QCS5CB	Crystal Clock Oscillator, SMT, 5x3.2mm	Y1	1	FAR- 2508596;	QANTEK TECHNOLOGY CORPORATION	QCS5CB8.00000F18B23M

Design Rules Verification Report

Filename : D:\@@@!\ProjectS\MALT191104\MALTVI24\Circuit\MALTVI24V00.PcbDoc

Warnings 0
Rule Violations 0

Warnings	
Total	0

Rule Violations	
Clearance Constraint (Gap=7mil) (All),(All)	0
Clearance Constraint (Gap=8mil) (HasFootprint("VSSOP-10")),(All)	0
Clearance Constraint (Gap=8mil) (HasFootprint("SSOP-28")),(All)	0
Clearance Constraint (Gap=8mil) (HasFootprint("DCK")),(All)	0
Clearance Constraint (Gap=8mil) (InNetClass("HV")),(All)	0
Clearance Constraint (Gap=8mil) (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=8mil) (Max=50mil) (Preferred=10mil) (All)	0
Power Plane Connect Rule(Direct Connect)(Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4)	0
Hole Size Constraint (Min=1mil) (Max=2362.205mil) (All)	0
Hole To Hole Clearance (Gap=10mil) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.5mil) (HasFootprint("DCK")),(All)	0
Minimum Solder Mask Sliver (Gap=0.5mil) (HasFootprint("LQFP-48")),(All)	0
Minimum Solder Mask Sliver (Gap=0.5mil) (HasFootprint("TQFP64-E0.5")),(All)	0
Minimum Solder Mask Sliver (Gap=0.5mil) (HasFootprint("VSSOP-10")),(All)	0
Minimum Solder Mask Sliver (Gap=0.5mil) (HasFootprint("SOT-23-5")),(All)	0
Minimum Solder Mask Sliver (Gap=0.5mil) (HasFootprint("MSOP-12")),(All)	0
Minimum Solder Mask Sliver (Gap=0.5mil) (HasFootprint("C1206 - 4W")),(All)	0
Minimum Solder Mask Sliver (Gap=5mil) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.5mil) (HasFootprint("SSOP-28")),(All)	0
Silk To Solder Mask (Clearance=5mil) (IsPad),(All)	0
Silk to Silk (Clearance=4mil) (All),(All)	0
Net Antennae (Tolerance=0mil) (All)	0
Height Constraint (Min=0mil) (Max=3937.008mil) (Preferred=500mil) (All)	0
Total	0