





Layers: 2	Min clearance: 0.2mm
Dimensions: 100x100mm	Min track: 0.2mm
Thickness: 1.6mm	Min hole: 0.3mm
	Min annular ring: 0.15mm

Eugene Lozovoy

Sheet: Assembly
File: mist1010.kicad_pcb

Title: MIST.1010

Size: A4	Date: 2022-08-21
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Size: A4	Date: 20
KiCad E.D.A.	kicad (6.0.6)

Rev: A2

Id: 1/1

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Designator	Package	Value	Quantity
BT1	CR2032V	1775485-1 or S8401-46	1
C1	C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	2.2u	1
C2, C9	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	1n	2
C3, C4, C5, C22, C23, C24, C30, C31, C32, C36, C37, C38, C43, C44, C45, C46, C47, C48, C49, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C64, C65, C66, C67, C71, C72, C73, C77, C78, C79	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	100n	39
C6, C15, C16, C81	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	10p	4
C7, C8	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	15p	2
C10	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	10n	1
C11, C12, C40	CP_Elec_5x5.9	100u	3
C13, C14, C82, C83	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	2.2n	4
C17, C18, C19, C25, C26, C29, C33, C34, C74, C75, C76, C84, C85, C86	C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	10u	14
C20, C21	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	100p	2
C27, C28	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	22p	2
C35, C42, C50, C51, C52, C63, C70	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	1u	7
C39	CP_Elec_6.3x7.7	100u/16V	1
C41, C68, C69	CP_EIA-3216-18_Kemet-A_Pad1.58x1.35mm_HandSolder	22u	3
C80	CP_Elec_6.3x7.7	220u	1
D1	LED_D3.0mm_Horizontal_O1.27mm_Z6.0mm	LED_Red	1
D2	LED_D3.0mm_Horizontal_O1.27mm_Z6.0mm	LED_Yellow	1
D3	LED_D3.0mm_Horizontal_O1.27mm_Z6.0mm	LED_Green	1
D4	D_SOD-123	1N4148W	1
F1	Fuse_1812_4532Metric_Pad1.30x3.40mm_HandSolder	1.1A	1
F2	Fuse_1812_4532Metric_Pad1.30x3.40mm_HandSolder	0.2A	1
H1, H2, H3, H4	MountingHole_3.2mm_M3_dk5.2mm	Screw M3 dk=5mm L=4mm	4
J1, J3, J13, J14	PinHeader_2x05_P2.54mm_Vertical	Conn_02x05_Odd_Even	4
J2	USB_Micro-B_Molex-105017-0001	USB_B_Micro	1
J4	PJ-320A_D	PJ-320	1
J5, J6, J7, J8	USB_A_Wuerth_614004134726_Horizontal	USB_A	4
J9	DSUB-15-HD_Female_Horizontal_P2.29x1.98mm_EdgePinOffset 3.03mm_Housed_MountingHolesOffset4.94mm	DB15_Female_HighDensity_MountingHoles	1
J10	SD_TE_2041021-mod	TE_041021-4	1
J11	PinHeader_1x03_P2.54mm_Vertical	PJ392	1
J12, J15	PinHeader_1x04_P2.54mm_Vertical	Conn_01x04	2
J16	GCT-MEM2055-00-190-01-A	MEM2055-00-190-01-A	1
J18	PinSocket_2x04_P2.54mm_Vertical	ESP-01	1
JP1	PinHeader_1x02_P2.54mm_Vertical	Jumper_2_Open	1
L1, L2, L3, L4	L_0805_2012Metric_Pad1.15x1.40mm_HandSolder	1u	4
N1		G738 or G706	1
Q1, Q3, Q4	SOT-23	BC817	3
Q2	SOT-23	IRLML6402	1
R1, R8, R24, R49	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	1.5k	4
R2, R3, R4, R9, R44, R48, R52, R55, R59, R66, R67, R73, R74, R75, R100	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	10k	15
R5, R6, R12, R13, R14, R27, R29, R30, R54, R56, R57	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	22	11
R7	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	120	1
R10, R11, R99, R104	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	560	4
R15, R22, R33, R76, R83, R91	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	1k	6
R16, R17, R23, R25, R34, R35, R77, R78, R84, R85, R92, R93	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	1.1k	12
R18, R26, R37, R79, R86, R94	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	2.2k	6
R19, R28, R39, R80, R87, R95	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	4.3k	6
R20, R31, R40, R81, R88, R96	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	9.1k	6
R21, R32, R41, R82, R90, R97	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	18k	6
R36	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	2.7k 1%	1
R38	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	0	1
R42, R43	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	100	2
R45, R46, R47	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	220	3
R50, R51, R53, R60, R61, R62, R63, R64, R68, R69, R70, R71, R72	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	4.7k	13
R58	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	470k	1
R65	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	470	1
R89, R101, R102, R103	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	75	4
R98	R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	4.7M	1
SW1	Molex_KK-254_AE-6410-02A_1x02_P2.54mm_Vertical	PB05A	1
SW2	SW_DIP_SPSTx02_Slide_9.78x7.26mm_W7.62mm_P2.54mm	SW_DIP_x02	1
SW3, SW4, SW5	SW_Tactile_SPST_Angled_PTS645Vx58-2LFS	SW_Push	3
U1	TSOP-II-54_22.2x10.16mm_P0.8mm	MT48LC16M16A2	1
U2	TQFP-64_10x10mm_P0.5mm	AT91SAM7S256-AU	1

Designator	Package	Value	Quantity
U3	ALTERA-QFP-145	EP3C25E144	1
U4	LQFP-32_5x5mm_P0.5mm	MAX3421E	1
U5	LQFP-48_7x7mm_P0.5mm	FE2.1-LQFP48	1
U6	DIP-8_W7.62mm	ATtiny45-20PU	1
U7	SOIC-8_3.9x4.9mm_P1.27mm	DS1307Z+	1
U8	TO-252-2	NCP1117-3.3	1
U9	SOT-223-3_TabPin2	LD1117AS12TR	1
U10	SOT-223-3_TabPin2	LD1117AS25TR	1
U11	SOIC-16W_7.5x10.3mm_P1.27mm	AD724	1
X1	Oscillator_SMD_SeikoEpson_SG8002CA-4Pin_7.0x5.0mm	27 MHz	1
X2	Oscillator_SMD_SeikoEpson_SG8002CA-4Pin_7.0x5.0mm	12 MHz	1
Y1	Crystal_HC49-U_Vertical	18.432 MHz	1
Y2	Crystal_C38-LF_D3.0mm_L8.0mm_Horizontal_1EP_style2	32768 Hz	1
Y3	Crystal_SMD_HC49-SD	4.433619 MHz	1