

C:\Users\raymond\Documents\KiCad\Miniscope-v4-Wire-Free\KiCad\MiniScope_V4.sch

4/12/2019 5:33:02 PM

Eeschema (5.1.0)-1

Component Count:55

Ref	Qnty	Value	Part	Footprint	Description	Vendor
C1, C2, C23, C24, C25, C26, C27, C28, C29, C31	10	GCJ188R71E104KA12D	.Capacitor:GCJ188R71E104KA12D	.Capacitor:C_0603_1608Metric_L	CAP CER 0.1UF 25V X7R 0603	
C3	1	GRM155R60J475ME87D	.Capacitor:GRM155R60J475ME87D	.Capacitor:C_0402_1005Metric_L	CAP CER 4.7UF 6.3V X5R 0402	
C20, C21	2	GRM1555C1H120JA01D	.Capacitor:GRM1555C1H120JA01D	.Capacitor:C_0402_1005Metric_L	CAP CER 12PF 50V C0G/NP0 0402	
C30	1	GCM21BR71E105KA56L	.Capacitor:GCM21BR71E105KA56L	.Capacitor:C_0805_2012Metric_L	CAP CER 1UF 25V X7R 0805	
C32	1	GRM21BR61E106MA73L	.Capacitor:GRM21BR61E106MA73L	.Capacitor:C_0805_2012Metric_L	CAP CER 10UF 25V X5R 0805	
C33, C34	2	GRM21BR61C226ME44L	.Capacitor:GRM21BR61C226ME44L	.Capacitor:C_0805_2012Metric_L	CAP CER 22UF 16V X5R 0805	
C35, C37, C38	3	GRM155R71A104JA01D	.Capacitor:GRM155R71A104JA01D	.Capacitor:C_0402_1005Metric_L	CAP CER 0.1UF 10V X7R 0402	
D1	1	Vishay / Lite-On LTST-C191KRKT	Device:LED_ALT	.LED:LED_SC80X160X65L40L	Light emitting diode, filled shape	
J1	1	0475710001	.Connector:0475710001	.Connector:0475710001	CONN MICRO SD CARD PUSH-PULL R/A	
J2, J3, J4, J5, J7, J8	6	Conn_01x01	.Connector:Conn_01x01	.Connector:Conn_1x1_250x750_Pad	Generic connector, single row, 01x01, script generated (kicad- library- utils/schlib/autogen/connector/)	
J6	1	Conn_01x20	Connector_Generic:Conn_01x20	.Connector:B2B_Flex_20_Dual_Row_38milx24mil_Pad_20mil	Generic connector, single row, 01x20, script generated (kicad- library- utils/schlib/autogen/connector/)	
J9	1	Conn_01x14	Connector_Generic:Conn_01x14	.Connector:B2B_Flex_14_Dual_Row_38milx24mil_Pad_20mil	Generic connector, single row, 01x14, script generated (kicad-	

J10	1	Conn_01x08	Connector_Generic:Conn_01x08	Connector_PinHeader_2.54mm:PinHeader_1x08_P2.54mm_Vertical	library- utils/schlib/autogen/connector/) Generic connector, single row, 01x08, script generated (kicad- library- utils/schlib/autogen/connector/)
J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J22	12	Conn_01x01	.Connector:Conn_01x01	.Connector:Conn_1x1_700_Circular_Pad	Generic connector, single row, 01x01, script generated (kicad- library- utils/schlib/autogen/connector/)
L1, L2	2	BLM18PG471SN1D	.Inductor:BLM18PG471SN1D	.Inductor:L_0603_1608Metric_L	FERRITE BEAD 470 OHM 0603 1LN
L3, L4	2	VLS3012HBX-2R2M	.Inductor:VLS3012HBX-2R2M	.Inductor:VLS3012HBX-2R2M	FIXED IND 2.2UH 3.15A 106 MOHM
R2	1	499	Device:R_US	.Resistor:R_0402_1005Metric_ERJ_L	Resistor, US symbol
R3, R4	2	100k	Device:R_US	.Resistor:R_0402_1005Metric_ERJ_L	Resistor, US symbol
U3	1	ATSAME70N21A-CN	.MCU:ATSAME70N21A-CN	.Package_BGA:BGA_100_CP80_10X10_900X900X110B40L	IC MCU 32BIT 2MB FLASH 100TFBGA
U4	1	TSOP57438TT1	.IR_Receiver:TSOP57438TT1	.Package_SON:SON_4_P300_395X395X90L55X35L	
U5	1	TPS62402-Q1	.Regulator_Switching:TPS62402-Q1	.Package_SON:SON_10_P50_300X300X100L40X24L	
U6	1	MAX13030EETE+	.Logic_Level_Translator:MAX13030EETE+	.Package_QFN:QFN_17_P65_400X400X80L50X30T210L	IC TRNSLTR BIDIRECTIONAL 16TQFN
Y1	1	ABM8G-12.000MHZ-4Y-T3	.Oscillator:ABM8G-12.000MHZ-4Y-T3	.Oscillator:OSCCC320X250X100L80X100	CRYSTAL 12.0000MHZ 10PF SMD