

Bill Of Materials November 13,2017 14:27:13

Item	NI	Quantity	Reference	Value	Rating	Voltage	Tol	Type	PCB Footprint	Manufacturer Part Number	Manufacturer	Sub	Comments
7	NI	2	C39 C53	0.1uF		10V	±10%	X7R	C0402L	GRM155R71A104KA01D	MuRata		
9	NI	8	C42 C43 C44 C45 C46 C47 C48 C49	2pF		50V	±0.1pF	C0G	C0402	GRM1555C1H2R0BA01D	MuRata		
35	NI	2	R33 R59	49.9	1/16W		±1%	ThickFilm	R0402L	CR0402-16W-49R9F	Venkel		
41	NI	2	R64 R65	0	1A			ThickFilm	R0402L	CR0402-16W-000	Venkel		
45	NI	11	TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP9 TP10 TP11	RED				LOOP	TESTPOINT	5000	Keystone		
46	NI	1	TP12	RED				Loop	TESTPOINT	151-207-RC	Kobiconn		
47	NI	1	TP13	BLACK				Loop	TESTPOINT	151-203-RC	Kobiconn		
1		7	C1 C3 C4 C7 C8 C9 C12	0.1uF		10V	±10%	X7R	C0402	GRM155R71A104KA01D	MuRata		
2		5	C2 C5 C6 C10 C11	1uF		10V	±10%	X7R	C0603	GRM188R71A105KA61D	MuRata		
3		6	C13 C16 C19 C25 C28 C33	0.01uF		16V	±20%	X7R	C0603	C0603X7R160-103M	Venkel		
4		12	C14 C15 C17 C18 C20 C21 C26 C27 C29 C30 C34 C35 C22 C23 C24 C31 C32 C36	4.7uF	1.0 Ohm ESR	10V	±10%	TANT	C3216	TR3A475K010C1000	Vishay Sprague		
5		8	C50 C52	1uF		16V	±20%	X7R	C0805	C0805X7R160-105M	Venkel		
6		2	C38 C40	18pF		50V	±2%	C0G	C0402	GRM1555C1H180GA01	MuRata		
8		1	C41	4.7pF		50V	±0.1pF	C0G	C0402	GRM1555C1H4R7BA01D	MuRata		
10		1	C51	0.1uF		16V	±10%	X7R	C0805	C0805X7R160-104K	Venkel		
11		1	D1	Green	20mA	3.4V		SMT, ChipLED	LED-HSMX-C170	HSMQ-C170	Avago Technologies		
12		1	D2	SP0503BAHT	300mW	20V		TVS	SOT143-AKKK	SP0503BAHTG	Littlefuse		
13		1	D3	Blue	20mA	3.4V		SMT, ChipLED	LED-HSMX-C170	HSMR-C170	Avago Technologies		
14		2	FB1 FB2	22 Ohm	6000mA			SMT	L0805	BLM21PG220SN1	MuRata		
15		6	JP1 JP2 JP3 JP4 JP5 JP6	Header 1x2 TH				Header	CONN1X2	TSW-102-07-G-S	Samtec		
16		1	JP7	HEADER 1x3				Header	CONN-1X3	TSW-103-07-T-S	Samtec		
17		14	JS2 JS3 JS4 JS5 JS6 JS7 JS8 JS9 JS10 JS11 JS12 JS13 JS14 JS15	Jumper Shunt				Shunt	N/A	SNT-100-BK-T-H	Samtec		
18		11	J1 J2 J3 J4 J5 J6 J7 J8 J9 J10 J15	SMA				SMA	SMA-EDGE-3	142-0701-801	Johnson Components		
19		2	J11 J12	BND_POST	15A			BANANA	BANANA-JACK	101	ABBATRON HH SMITH		
20		1	J13	USB Type B				USB	CONN-USB-B	61729-0010BLF	FCI		
21		1	J14	HEADER 8x3				Header	CONN3X8	TSW-108-07-S-T	Samtec		
22		4	MH1 MH2 MH3 MH4	SCREW/STANDOFF				HDW	MH-125NP	NSS-4-4-01/2397	VARIOUS		
26		5	R1 R2 R15 R16 R25	1	2W		±100PPM, ±1%	ThickFilm	R2512	LRC-LR2512LF-01-1R00-F	TT Electronics		
27		6	R3 R4 R7 R17 R18 R26	10K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-1002F	Venkel		
28		5	R9 R11 R13 R21 R23	21.5K	1/10W		±1%	ThickFilm	R0603	CR0603-10W-2152F	Venkel		
29		6	R10 R12 R14 R22 R24 R48	8.06K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-8061F	Venkel		
30		1	R28	8.25K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-8251F	Venkel		
31		1	R29	13.3K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-1332F	Venkel		
32		1	R30	33K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-3302F	Venkel		
33		1	R31	20K	1/10W		±1%	ThickFilm	R0603	CR0603-10W-2002F	Venkel		
34		2	R32 R34	0	1A			ThickFilm	R0402L	CR0402-16W-000	Venkel		
36		1	R35	10	1/16W		±1%	ThickFilm	R0603	CR0603-16W-10R0F	Venkel		
37		9	R36 R37 R38 R39 R40 R41 R42 R43 R44	0	1A			ThickFilm	R0402	CR0402-16W-000	Venkel		
38		1	R45	6.8K	1/16W		±1%	ThickFilm	R0402	CR0402-16W-6801FT	Venkel		
39		11	R49 R50 R51 R52 R53 R54 R56 R60 R61 R62 R63	1K	1/16W		±5%	ThickFilm	R0402	CR0402-16W-102J	Venkel		
40		3	R55 R57 R58	10K	1/16W		±5%	ThickFilm	R0402	CR0402-16W-103J	Venkel		
42		1	SW1	SW1-DIP-SMT	0.025A	24V		DIP	SW1-DIP-SMT	SDA01H05B	C&K Components		
43		1	SW2	SW3-DIP-SMT	0.025A	24V		DIP	SW3-DIP-SMT	SDA03H05B	C&K Components		
44		1	SW3	SW_SLIDE_2POS	0.2A @ 12VDC			SLIDE	SW-CL-SB-12A-1X	CL-SB-12A-12	Copal		
48		1	U1	S152204-32QFN				Timing	QFN32M5X5P0.5E3.15	S152204-A01AGM	SilLabs		
49		6	U2 U3 U4 U5 U6 U7	TPS76201	100mA			LDO	SOT5N2.8P0.95	TPS76201DBV	TI		
50		1	U8	25MHz				FA-238	XTAL4N3.2K2.5-FA238	FA-238 25.0000MB	Epson		