



Intel開発キットに搭載されているWurth製品紹介

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Arria 10 Dev Kit

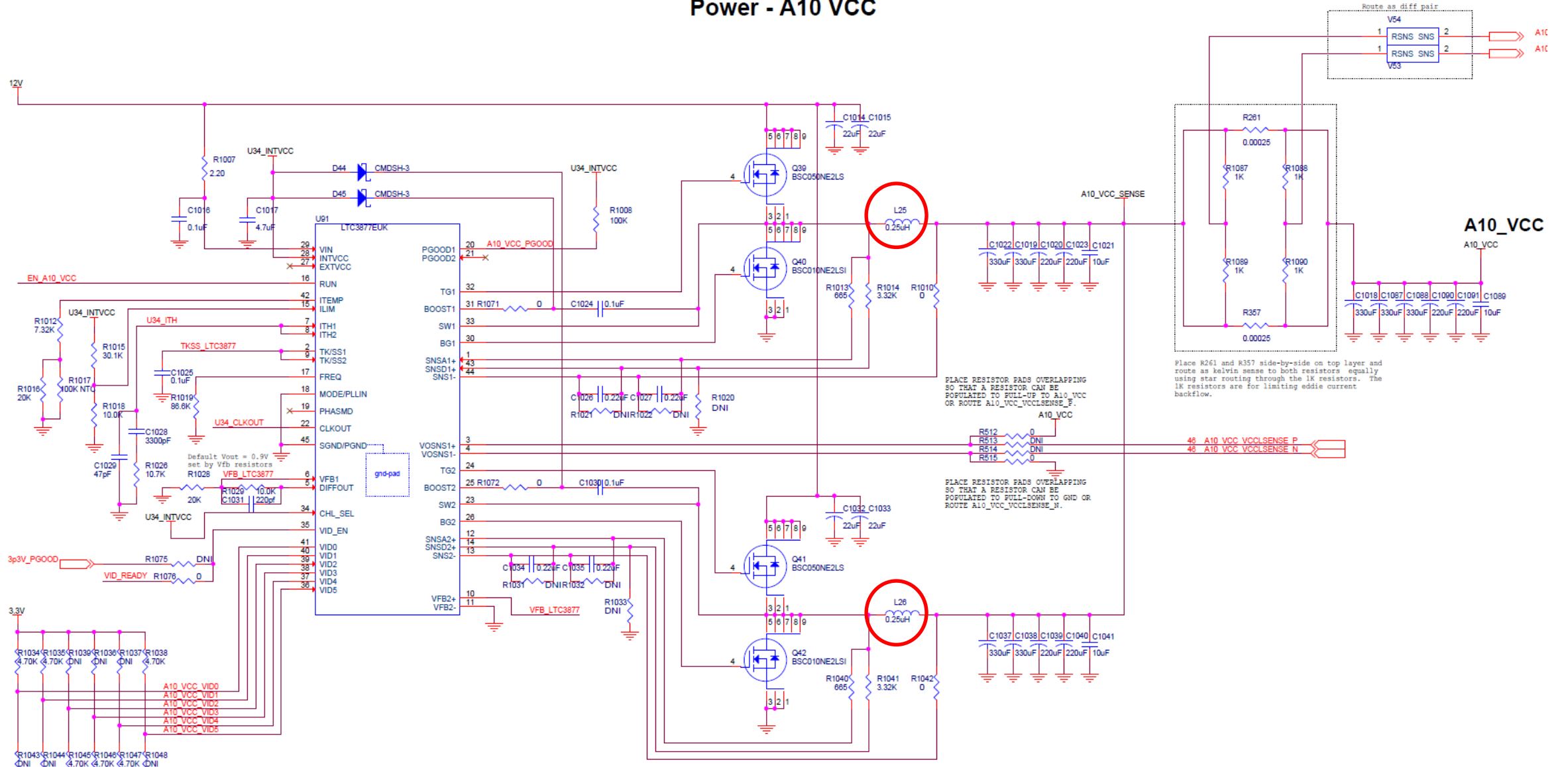
Description	Qty	Ref Des	Manufacturers Name	Manufacturers Part Number
FIXED IND 250NH 38A 0.32 MOHM	4	L25,L26,L27,L28	Würth Elektronik	744301025
LED - BRIGHT GREEN, VF=2V, IF=0.03A, 0603	21	D1,D2,D11,D12,D13,D14,D15,D17,D18,D20,D21,D22,D23,D24,D25,D26,D27,D28,D29,D30,D33	Würth Elektronik	150060VS75000
LED -SUPER RED, VF=1.9V, IF=0.03A, 0603	2	D16,D32	Würth Elektronik	150060SS75000
LED -YELLOW, VF=2V, IF=0.03A, 0603	5	D34,D35,D36,D37,D38	Würth Elektronik	150060YS75000
DIODE - ULTRA LOW CAPACITANCE ESD ARRAY, 0.3PF IO TO GND, 0.05PF IO TO IO, MSOP-8L	2	D39,D41	Würth Elektronik	82401646
IND - POWER CHOKE, 4.7UH +/-10%, RDC 0.65 OHM, IDC=0.85A, 1008 SMD	2	L16,L17	Würth Elektronik	74479887247
			Würth Elektronik	74479887247A
IND - 1.0UH, DCR=0.1-OHM, IR=1.1A, ISAT=0.7A, 0805	3	L19,L20,L21	Würth Elektronik	74479775210
IND - FERRITE BEAD, 56 OHM@100MHZ, RDC 0.004-OHM, 10A, SMD 1612	1	L24	Würth Elektronik	74279223560
SWITCH - 8 POS DIP SMD	1	SW2	Würth Elektronik	416131160808
SWITCHES - 4 POS, 8 PIN, ULTRA-MINI SMT HALF-PITCH SLIDER DIP SWITCH	3	SW3,SW4,SW5	Würth Elektronik	416131160804
SWITCHES - 5 POS, 10 PIN, ULTRA-MINI SMT HALF-PITCH SLIDER DIP SWITCH	1	SW6	Würth Elektronik	416131160805
SWITCH - 6 POS DIP SMD	1	SW7	Würth Elektronik	416131160806
SWITCH - PUSH BUTTON 6.0X3.5MM SMD	8	S1,S2,S3,S4,S5,S6,S7,S8	Würth Elektronik	434121043816

Stratix 10 Dev Kit

Description	Qty	Ref Des	Manufacturers Name	Manufacturers Part Number
LED - BRIGHT GREEN, VF=2V, IF=0.03A, 0603	8	D1,D2,D5,D6,D8,D11,D12,D13	Würth Elektronik	150060VS75000
LED -SUPER RED, VF=1.9V, IF=0.03A, 0603	1	D3	Würth Elektronik	150060SS75000
LED - GREEN 570NM LED INDICATION - DISCRETE 2V 1206	4	D14,D16,D18,D21	Würth Elektronik	150120VS75000
LED -YELLOW, VF=2V, IF=0.03A, 0603	6	D15,D17,D19,D20,D22,D23	Würth Elektronik	150060YS75000
SWITCHES - 4 POS, 8 PIN, ULTRA-MINI SMT HALF-PITCH SLIDER DIP SWITCH	1	SW1	Würth Elektronik	416131160804
SWITCH - PUSH BUTTON 6.0X3.5MM SMD	7	S1,S2,S3,S4,S5,S6,S7	Würth Elektronik	434121043816
IND - 1.0UH, DCR=0.1-OHM, IR=1.1A, ISAT=0.7A, 0805	3	L10,L11,L12	Würth Elektronik	74479775210
IND - FERRITE BEAD, 56 OHM@100MHZ, RDC 0.004-OHM, 10A, SMD 1612	2	FB1,FB2	Würth Elektronik	74279223560
DIODE - ULTRA LOW CAPACITANCE ESD ARRAY, 0.3PF IO TO GND, 0.05PF IO TO IO, MSOP-8L	2	D7,D8	Würth Elektronik	82401646
LED - BLUE, VF=3.5V, 0805 SMD	1	D45	Würth Elektronik	150080BS75000
LED - BRIGHT GREEN, VF=2V, IF=0.03A, 0603	6	D2,D3,D4,D5,D6,D9	Würth Elektronik	150060VS75000
LED -SUPER RED, VF=1.9V, IF=0.03A, 0603	1	D40	Würth Elektronik	150060SS75000
SWITCHES - 4 POS, 8 PIN, ULTRA-MINI SMT HALF-PITCH SLIDER DIP SWITCH	5	SW2,SW3,SW4,SW6,SW8	Würth Elektronik	416131160804
SWITCH - PUSH BUTTON 6.0X3.5MM SMD	1	S1	Würth Elektronik	434121043816

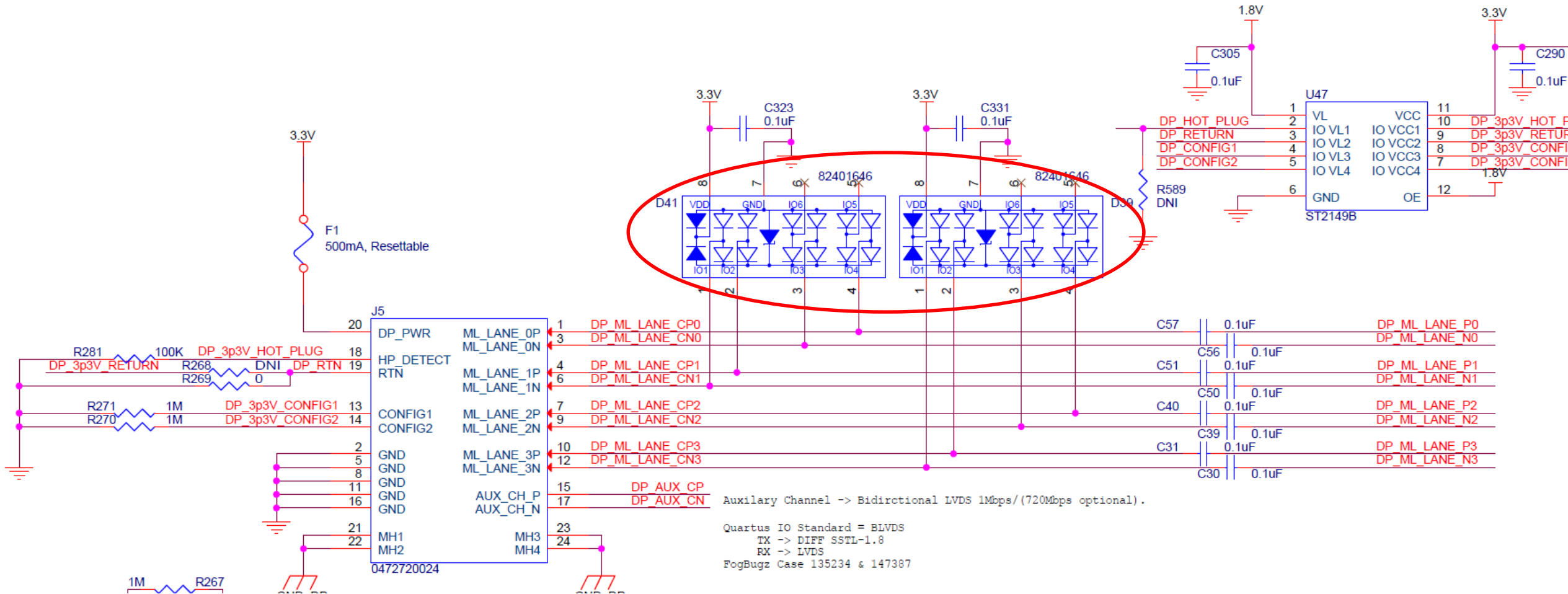
採用事例：インダクタ

Power - A10 VCC



採用事例：ダイオード(DPコネクタの過電圧保護)

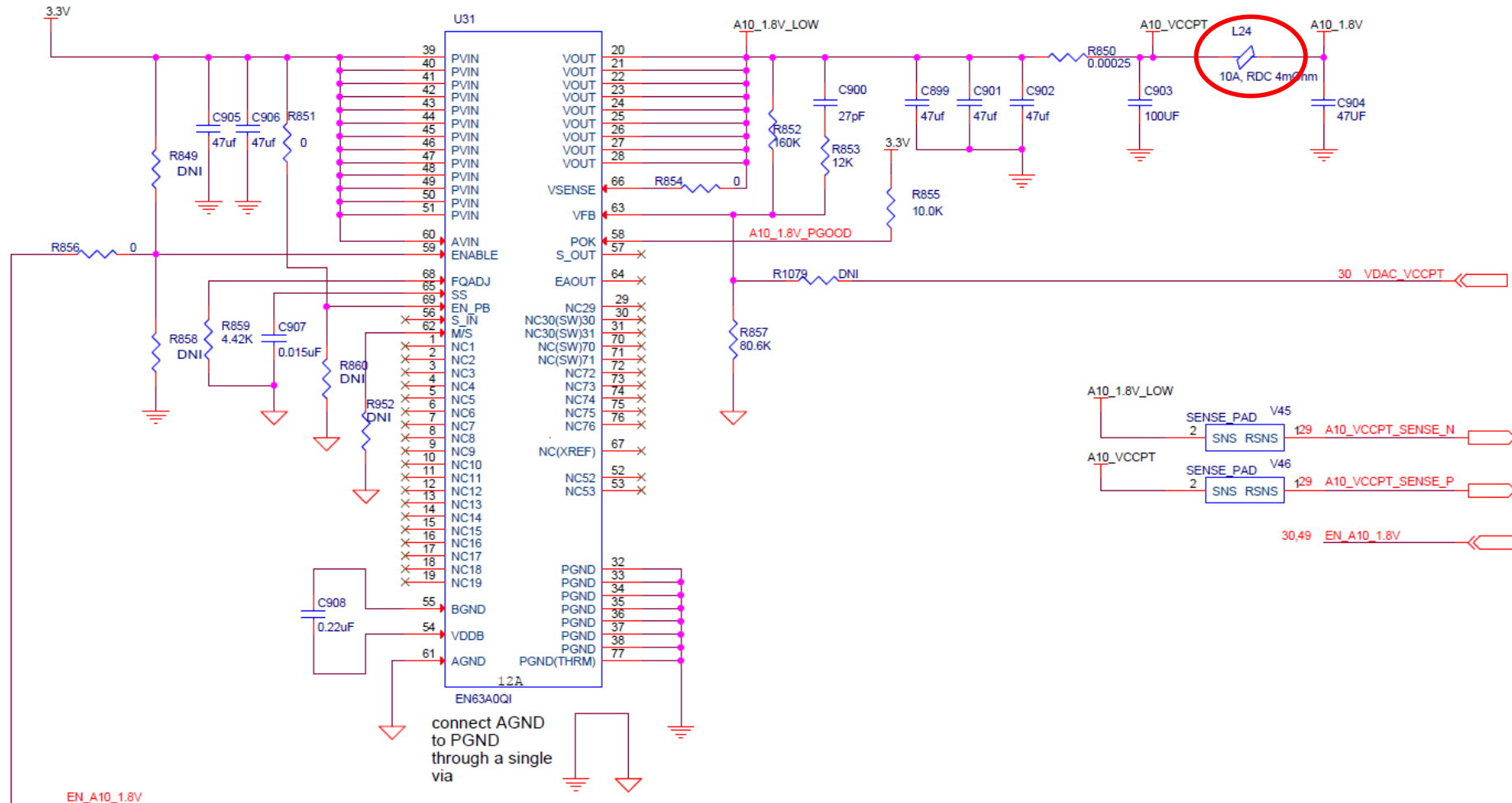
Display Port (x4)



採用事例：フェライトビーズ

Power - A10 VCCPT & 1.8V

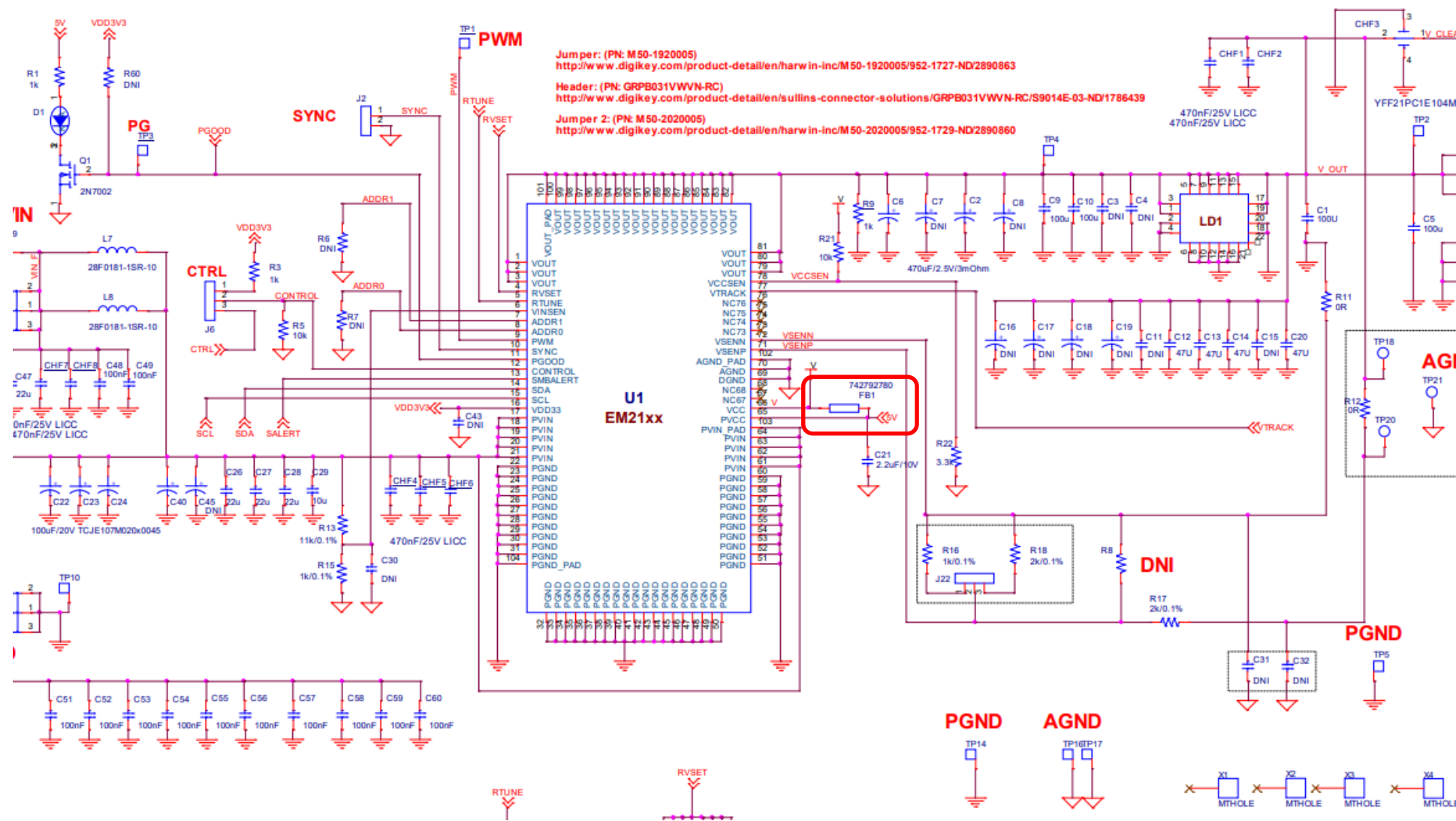
Arria 10
VCCA_PLL, VCCH_GXB, VCCPT
(1.8V/10.229A)



採用事例：Intel 開発キット(その他)

- QSFPの電源周りにインダクタ(コイル)が使われている
- DIPスイッチ、Pushスイッチなど

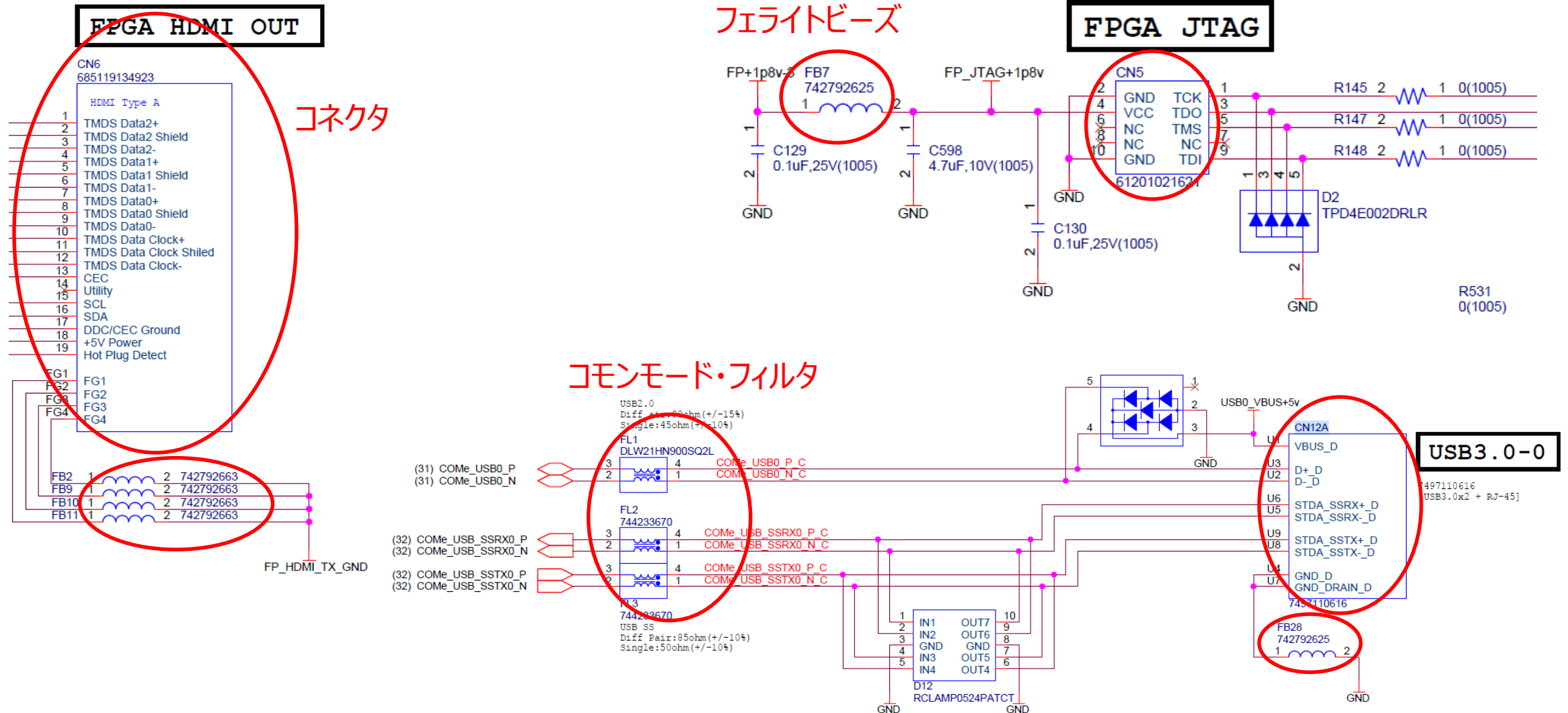
採用事例：EM2130評価ボード(フェライトビーズ)



マクニカ製 Magnes (Arria 10) に搭載されている Wurth 製品

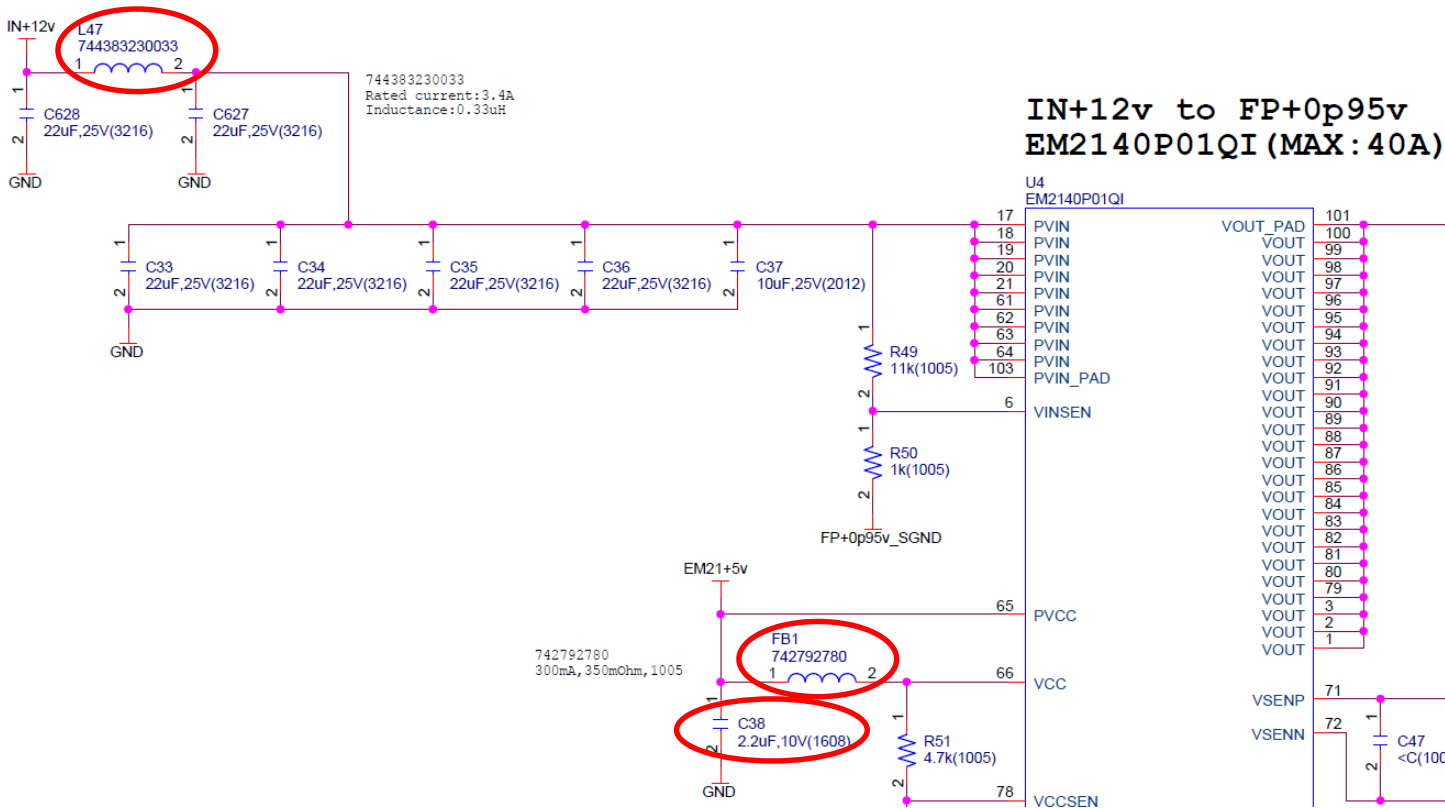
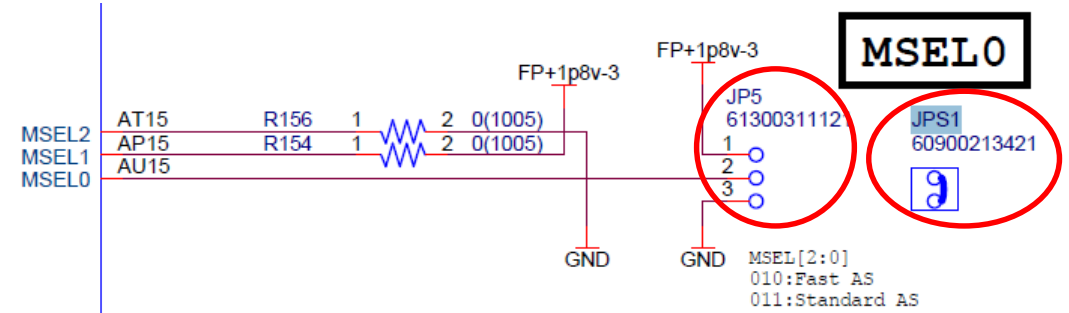
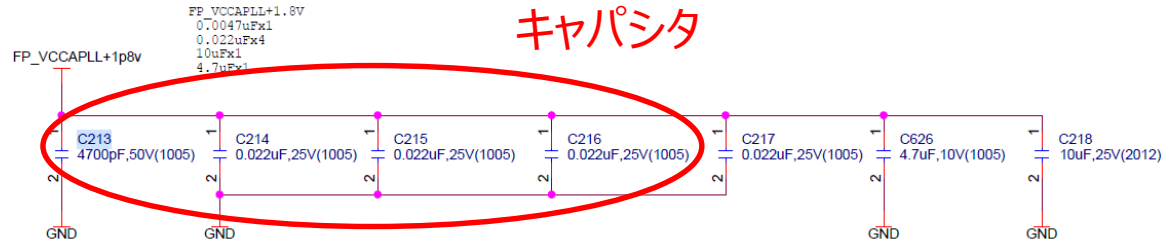
№	Part Name	Manufacturer of Mount Part No.	Manufacturer	PCB Footprint	pin count	Quantity	Reference
5	FPGA JTAG Connector	61201021621	Wurth	DIP	10	1	CN5
6	HDMI Connector(Type-A)	685119134923	Wurth	DIP	19	2	CN6,CN14
10	USB3.0x2RJ-45 Connector	7497110616	Wurth	DIP	32	1	CN12
11	USB3.0x2 Connector	692141030100	Wurth	DIP	22	1	CN13
13	USB Connector(Type-B)	61400416121	Wurth	DIP	4	1	CN16
16	CPU FAN Connector	61900311121	Wurth	DIP	3	1	CN22
18	100uF,25V	865080445010 [EEE-1EA101XP]	Wurth [Panasonic]	SMT	2	8	C1,C2,C3,C4,C6,C7,C8,C9
19	4700pF,50V(1005)	885012205065 [GRM155R71H472KA01J]	Wurth [MURATA]	1005	2	10	C5,C213,C238,C239,C240,
20	0.1uF,25V(1005)	885012105018 [TMK105BJ104KV-F]	Wurth [Taiyo Yuden]	1005	2	158	C10,C11,C12,C13,C14,C15,
24	2.2uF,10V(1608)	885012206027 [GRM188B31A225KE33D]	Wurth [MURATA]	1608	2	5	C38,C60,C75,C128,C289
31	0.01uF,25V(1005)	885012205050 [GRM155B11E103KA01D]	Wurth [MURATA]	1005	2	42	C87,C93,C99,C111,C132,
32	10pF,50V(1005)	885012005055 [C1005C0G1H100D]	Wurth [TDK]	1005	2	4	C90,C96,C102,C645
35	100pF,50V(1005)	885012005061 [GRM1555C1H101JA01D]	Wurth [MURATA]	1005	2	1	C109
37	15pF,50V(1005)	885012005056 [GRM1555C1H150JA01D]	Wurth [MURATA]	1005	2	1	C113
40	0.022uF,25V(1005)	885012205014 [GRM155R71E223KA61D]	Wurth [MURATA]	1005	2	14	C206,C207,C214,C215,C216,
41	0.047uF,25V(1005)	885012205054 [GCM155R71E473KA55D]	Wurth [MURATA]	1005	2	5	C208,C223,C228,C281,C282
42	0.22uF,10V(1005)	885012105011 [GRM155B31A224KE18D]	Wurth [MURATA]	1005	2	3	C210,C286,C539
43	2200pF,50V(1005)	885012205063 [GRM155B11H222KA01D]	Wurth [MURATA]	1005	2	1	C219
45	0.068uF,16V(1005)	885012205036 [GRM155R71C689KA88D]	Wurth [MURATA]	1005	2	10	C292,C296,C304,C308,C324,
48	47pF,50V(1005)	885012005059 [GRM1555C1H470JA01D]	Wurth [MURATA]	1005	2	2	C509,C510
60	Ferrite bead	742792780	Wurth	1005	2	4	FB1,FB3,FB4,FB6
61	Ferrite bead	742792663 [BLM18BD102SN1D]	Wurth [MURATA]	1608	2	9	FB2,FB9,FB10,FB11,FB21,
63	Ferrite bead	742792625 [BLM18PG121SN1]	Wurth [MURATA]	1608	2	12	FB7,FB8,FB20,FB26,FB27,
64	Ferrite bead	742792641 [MPZ1608S221A]	Wurth [TDK]	1608	2	4	FB12,FB13,FB14,FB40
73	Common Mode Filter	744233670	Wurth	2012	4	8	FL2,FL3,FL5,FL6,FL8,FL9,
76	Socket	60900213421	Wurth	-	2	1	JPS1
80	Pin Header	61300311121	Wurth	DIP	14	1	JP5
81	Pin Header	61300421121	Wurth	DIP	3	1	JP6
85	Inductor(22uH)	7447786122	Wurth	6.2*5	2	1	L2
86	Inductor(330nH)	744383230033	Wurth	2520	2	2	L47,L48
87	Inductor(330nH)	744373240033	Wurth	2520	2	2	L49,L50
161	DIP SW	416131160808	Wurth	SMD	16	1	SW2
162	Push SW	434123043816	Wurth	SMD	4	6	SW3,SW4,SW5,SW6,SW8,SW9

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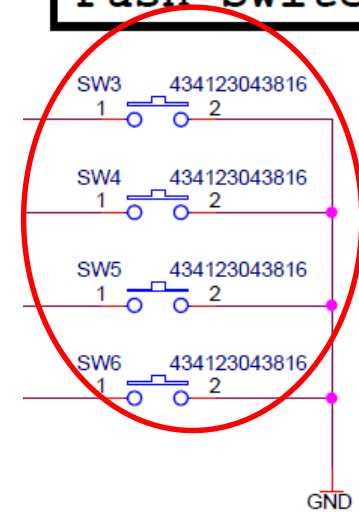


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キャパシタ



Push Switch



Dip Switch

