BOM for MSP-EXP430G2 LaunchPad   PCB-Rev. 1.3

Pos.	Ref Des	Number per board	Description	DigiKey part #	Comment
1	C2, C3	2	33pF 0402		
2	C9, C10	2	22pF 0402		
3	C1	1	10nF 0402		
4	C5, C7, C11, C12, C13	5	100nF 0402		
5	C4, C6, C8	3	1uF/6.3V 0604		
6	D1	1	1N4148 Micromelf		
7	EZ_USB	1	SB-MB-H	732-2109-ND, H2961CT-ND	preferred: 732-2109-ND
8	Q1	1	SMD Freqtech: FT10A-12,0/16-30-30/27		
9	R1, R2, R3, R16, R17	3	47k 0402		Only 3 because DNP R16, R17
10	R8	1	6k8 0402		
11	R19, R22	2	3k3 0402		
12	R9	1	3k3 0402		
13	R12 R21	2	33k 0402		
14	R4, R5, R6, R7, R23	5	100R 0402		
15	R14, R15	2	33R 0402		
16	R18, R20	2	100k/1% 0402		
17	R13, R24, R25	3	1k5 0402		
18	R10	1	10k 0402		
19	R11	1	15k 0402		
20	U1	1	MSP430F1612IPMR		supplied by TI
21	U4	1	TPD2E001DRLR		supplied by TI
22	U3	1	TUSB3410VF		supplied by TI
23	U2	1	TPS77301DGKR		supplied by TI
24	U5	1	AT24C128-10TU-2.7	AT24C128B-TH-B-ND	
25	TP1, TP2, TP3, TP4, TP5, TP6, TP7				Keep vias free of solder
26	C14	1	1nF, SMD0603		DNP
27	C21, C22	2	12.5pF, SMD0603		DNP
28	C23	1	10uF/10V, SMD 0805	445-1371-1-ND	
29	C20, C24	2	100nF, SMD0603		
30	LED0, LED1	2	green DIODE0603		
31	LED2	1	red DIODE0603		
32	R34, R27	2	47k SMD0603		
33	R32, R26	2	270R SMD0603		
34	R33	1	470R SMD0603		
35	R28, R29	2	0R SMD0603		
36	U7	1	DIL20	e.g.: A404AE-ND, 3M5465-ND	A404AE-ND preferred!
37	Q2	1	Crystal	Will be supplied by microcrystal!	DNP: Q2 Keep vias free of solder enclosed with kit
38	J1, J2,	2	10-pin header, TH 2.54 mm Male/Female		DNP: headers and receptacles enclosed with kit. Keep vias free of solder. : Header : Receptacle
39	J3	1	2X05 Pin Header Male		place jumper on all header (5 pcs)
40	J4	1	6 Pin Header Male 1.28 mm		DNP: keep vias free of solder
41	J5	1	2X02 Pin Header Male		place jumper on header
42	J6	2	3-pin header, male, TH	SAM1035-03-ND	no jumper required
43	S1, S2	2	Push Button	P12225STB-ND	
44	MSP430	1	MSP430G2231IN14		DNP: enclosed with kit. Is supplied by TI
45	MSP430	1	MSP430G2211IN14		DNP: enclosed with kit. Is supplied by TI
46	Rubber stand off	4		Buerklin: 20H1724	apply to corners at bottom side

DNP: Do not populate!