

Bill of Materials

Project: ARDUINO CARRIER CARD
 Project Name: ARDUINO-CC-PRJ-B.PrjPcb
 Revision: B
 Variant: 2



Report Date: 3/3/2015 3:56:49 PM

#	Quantity	Designator	Description	MFG	MFGPN	DNP
1	19	C1, C3, C4, C6, C8, C10, C12, C13, C14, C15, C16, C21, C23, C24, C25, C27, C28, C30, C31	CAP SM 0.1uF 10V 10% X5R C0402	AVX	0402ZD104KAT2A	
2	2	C29, C32	CAP SM 0.1uF 10V 10% X5R C0402	AVX	0402ZD104KAT2A	DNP
3	2	C2, C5	CAP SM 4.7uF 6.3V 20% X5R C0402	SAM	CL21A475KOFNNNE	
4	3	C7, C9, C11	CAP SM 10uF 25V 10% X5R C1206	MURATA	GRM31CR61E106KA12L	
5	2	C17, C34	CAP SM 4.7uF 6.3V 20% X5R C0402 85C	SAM	CL21A475KOFNNNE	
6	3	C18, C19, C20	CAP SM 100uF 16V 1210	Tiayo Yuden	EMK325ABJ107MM-T	DNP
7	2	C22, C26	CAP SM 100uF 16V 20% Y5V C1210	TAIYO YUDEN	EMK325F226Z-N-T	
8	1	C33	Ceramic-Cap X7R 16V	AVX	0603YC105KAT2A	
9	1	D1	POLYZEN 5.6V PPTC/ZENER SMD	TE	ZEN056V130A24LS'	
10	1	D2	Diode SM Barrier Rectifier Schottky 3A 30V DIO-S SMA	DIODES	B330A-13-F	DNP
11	2	D3, D4	LED, GREEN 525nm 3.2V 20mA 150mcd LED-G LED_LITE-LTST-C191TBKT-G	AVAGO	HSMM-C190	
12	1	D5	Schottky Barrier Diode, 3-Pin SOT-323, Tape and Reel	ON SEMI	BAT54WT1	
13	3	J1, J2, J3	Header TH 100mil 6X2 Right Angle PMOD Horizontal	SAM	SSQ-106-02-T-D-RA	
14	1	J4	CONN SM Barrel Jack 2.5MMX5.5MM Barrel_Socket-2 CON_CUI-PJ-002B-SMT	CUI	PJ-002AH-SMT	DNP
15	1	J5	CONN SM USB mini B 5 wire USB2.0 USB_AB	TE	1734035-1	DNP
16	1	J6	2P 2.54mm Header	TE	5-146280-2	DNP
17	1	J7	CONN RCPT MICRO USB AB R/A SMD	MOLEX	475890001	
18	2	JA1, JA3	SOCKET, 0.1", 1X8, 0.1" TAIL	SAMTEC	SSQ-108-01-G-S	
19	1	JA2	SOCKET, 0.1", 1X10, 0.1" TAIL	SAMTEC	SSQ-110-01-G-S	
20	1	JA4	SOCKET, 0.1", 1X6, 0.1" TAIL	SAMTEC	SSQ-106-01-G-S	
21	1	JM1	SOCKET, 0.1", 2X8, 10mm Tail	SAMTEC	SSQ-108-23-G-D	
22	1	JM2	SOCKET, 0.1", 2x10, 10mm PINs	SAMTEC	SSQ-110-23-G-D	
23	3	JP1, JP2, JP3	Header TH 100mil 3x1 HDR3 HDR3-100	TE	5-146280-3	
24	2	JX1, JX2	Microheader 100 pos Plug .8mm	FCI	61083-101400LF	
25	1	L1	FIXED IND 1uH 5A 21.6 mOHM SMD	BOURNS	SRP4020-1R0M	
26	1	PCB1	PCB	-	ARDUINO-CC-PCB-B	
27	2	Q1, Q3	MOSFET-N	ON SEMI	BSS138LT1G	
28	3	R1, R18, R26	4.42K resistor, 1%, 0402	VISHAY	CRCW04024K42FKED	
29	12	R2, R3, R4, R5, R6, R8, R15, R22, R27, R30, R33, R37	Res Thick Film 0402 4.75K Ohm 1% 1/16W ±100ppm/°C Molded SMD SMD Paper T/R	VISHAY	CRCW04024K75FKED	DNP
30	4	R7, R14, R25, R35	Jumper 1206 (3216 Metric)	VISHAY	CRCW12060000Z0EA	
31	2	R10, R36	Jumper 1206 (3216 Metric)	VISHAY	CRCW12060000Z0EA	DNP
32	1	R9	RES SM 0 ohm 62mW J R0402	VISHAY	CRCW04020000Z0ED	
33	6	R11, R20, R28, R29, R31, R34	Resistor	VISHAY	CRCW040210K0JNEA	
34	4	R12, R21, R23, R24	RES SM 1K 62mW 0.01 R0402	VISHAY	CRCW04021K00FKED	
35	1	R13	Resistor 10 0402 1%	PANASONIC	ERJ-2RKF10R0X	
36	2	R16, R19	RES, 2.21K 0402 1%	VISHAY	CRCW04022K21FKED	
37	1	R17	RES, 53.6K 0402 1%	PANASONIC	ERJ-2RKF5362X	
38	1	R32	499R 0.063W 1% 0402 (1005 Metric) SMD	VISHAY	CRCW0402499RFKED	
39	3	SH1, SH2, SH3	Shunt 100mil 2x1 Shunt	TE	1-382811-6	
40	95	TP1, TP2, TP3, TP4, TP5, TP6,	Test Point 24 mil pad, round, 10 mil hole, small symbol TPS TP24TH	-	None	DNP
41	1	U1	ADP2164 SMPS 1.2Mhz, 4A	ANALOG DEVICES	ADP2164ACPZ-R7	
42	1	U2	500 mA, Low Quiescent Current, CMOS Linear Regulator, 2.3 to 5.5 V Vin, 3.3 V Vout, Industrial, 8-pin SON	ANALOG DEVICES	ADP124ACPZ-3.3-R7	
43	1	U3	Low Offset Voltage Dual Comparators, 2 to 36 V, 0 to 70 degC, 8-Pin SOIC, Pb-Free, Tube	ON SEMI	LM393DG	
44	1	U4	Programmable Voltage Reference, 2.5 to 36V, 3-Pin SOT23-3, Tape and Reel	STM	TL431AIL3T	

Approved

Notes