



LABORATÓRIO DE INSTRUMENTAÇÃO
E FÍSICA EXPERIMENTAL DE PARTÍCULAS
partículas e tecnologia

MARTA DAQ V BOM

[**LIP** PARTICLES AND TECHNOLOGY]

Component list

Bill of Materials For PCB Document [Marta DAQ V.PcbDoc]

Source Data From:
Project:
Variant:

LIP
DAQ_MARTA V
Revision: 1
Authorizes: Miguel Ferreira



Report Date: 29-11-2017
Print Date: 25-jan-18

12:07:34
2:46:15 PM

#	LibRef	Designator	Footprint	Description	Value	Comment	Quantity	Stock	Check
1	Maroc3	Maroc3	PQFP240_M			Maroc3	1	Bulk	
2	EP4CE30F23C8L	U8	FBGA484_A-240	Cyclone IV Family FPGA, 1V Core, 328 I/O Pins, 4 PLLs, 484-Pin FBGA, Speed Grade 8, Commercial Grade		EP4CE30F23C8L	1	Bulk	
3	LM317AEMP	U1	SOT230P700X175-4N	LDO		9779272	1	Bobinado	
4	TPS26600PWPT	U2	TSSOP16PAD			TPS26600PWPT	1	Digi-Reel	
5	TPS74401RGWR	U3, U10, U11, U12, U16, U41	TI-RGW20-3150X3150TP_V	Single Output Fast Transient Response LDO, 3 A, Adjustable 0.8 to 3.6 V Output, 0.8 to 5.5 V Input, with Programmable Soft Start, 20-pin VQFN (RGW), -40 to 125 degC, Green (RoHS & no Sb/Br)		TPS74401RGWR	6		
6	REF3033	U4	SOT23-3N			1470325	1	Cut Tape	
7	FT2232H	U5	LQFP-64			1697461	1	Digi-Reel	
8	93LC56B-I/SN	U6	SOIC8N_N	2K, 128x16-bit, 2.5V Microwire Serial EEPROM, 8-Pin SOIC 150mil, Industrial Temperature		9758259	1	Bobinado	
9	TPS3825-33DBVT	U7, U19	SOT23P284X122-5N			TPS3825-33DBVT	2	Cut Tape	
10	LT1117	U9	SOT223-4M			1663356	1	Bobinado	
11	SN74LVC1G08DBVR	U13, U14, U18	SOT95P280X140-5N	Logic Gate AND 2 Input		2437128 (3000 unidades)	3	Cut Tape	
12	SN74LVC1G126DBVT	U15	SOT95P280X140-5N			#NAME?	1	Digi-Reel	
13	TPS3825-50DBVT	U17	SOT23P284X122-5N			8457247	1		
14	CMP-0215-00007-1	U22	SOIC8_L	EPCS4 Series, In-system programmable 3.3V serial configuration device, 8-Pin SOIC, 4-Megabit, Industrial Grade, Pb-Free		EPCS4SI8N	1	6	
15	SN74LVC1G04	U23	DBV005			1287591	1	Bobinado	
16	AD7415ARTZ-0500RL7	U33, U35	SOT95P280X140-5N			1651312	2	Digi-Reel	
17	SHT21	U36	SENSIRION_SHT2X			1855468	1	Cut Tape	
18	AD7415ARTZ-1500RL7	U37, U38	SOT95P280X140-5N			2460968	2	Digi-Reel	
19	P82B96	U40	SOIC127P600X175-8N			2314830	1	Cut Tape	
20	Max4214	U42, U43	SOT23P284X122-5N			Max4214	2	Cut Tape	
21	Oscillator 100Mhz	QZ1	OSC_EPSON_EG-2121CA	Oscilator		SER3659-ND	1	Tube	
22	Crystal Oscillator	OZ1	32SMX	Oscilator		#NAME?	1	Digi-Reel	
23	ESDSuppressor	Q1	SOT23	Schottky Rectifier		1757241	1	Bobinado	
24	PNP	Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9	SOT23-3L	BFT92		PNP	8	Bobinado	
25	2N3904	T1, T2, T3, T4, T5, T6, T7, T8, T10	SOT95P237X112-3N			9846727	9	Bobinado	
26	ZXTD09N50DE6	T9	SOT95P285X100-6N			ZXTD09N50DE6	1	Cut Tape	
27	EMI Filter	F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F13, F14, F15, F16, F17	EMICAP			Farnell 1686508	16	Digi-Reel	
28	Fuse	(F12 NOT ASSEMBLED), F18	FUSR_LITTELFUSE_1206L012	Fuse		Fuse	1	Digi-Reel	
29	Ferrite	L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L13, L14, L15, L16, L17	INDUTOR0603	Inductor		MPZ1608S221A	16	Bobinado	
30	EMIFILT	L12, L18, L24	CAPC_MURATA_NFE61P	Inductor		9528202	3	Bobinado	
31	Inductor_1	L20, L21	INDUTOR0603	Inductor		1635706	2	Digi-Reel	
32	Ferrite	L22, L23	INDUTOR0603	Inductor		1292696	2	Bobinado	
33	Ferrite_1	L25	INDC1608X95N	Case 0603		2443236	1	Digi-Reel	
34	Ferrite	L26, L27, L28, L29	INDC1005X55N	Case 0403		1515785RL	4	Digi-Reel	
35	Diodo	(D1 NOT ASSEMBLED)	1206	Zener Diode		5V1	0	0	
36	LED	D2, D5, D6, D7, D8, D9, D10, D11, D12, D13, Power Good	LEDGREEN	LED		815-4209	11	Digi-Reel	
37	B260A-13-F	D3	Diode-SMA	Schottky Rectifier, 60V, 2A, SMA		B260A-13-F	1	Cut Tape	
38	LED	D4, D14, D17	LEDRED			1328308	3	Bobinado	
39	SMCJ30A	D15	SMCJ	Transient Voltage Suppressor Diode		SMCJ30A	1	Cut Tape	
40	LED	Config	LEDBLUE			2322069	1	Digi-Reel	
41	Cap Semi,	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C30, C31, C32, C33, C35, C36, C37, C38, C39, C40, C41, C42, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53,C55, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C77, C79, C80, C81, C85, C86, C87, C88, C90, C94, C95, C96, C97, C99, C100, C102, C104, C105, C111, C134, C125, C126, C128, C140, C147, C148, C151, C152, C154, C155, C217, C218, C220, C28, C71, C108, C122, C124, C128, C142, C327	C0603	Capacitor (Semiconductor SIM Model)	100nF/25V	100nF	100	reel	
42	CAP_1	C29	CAPC3225X168N	Capacitor	68uF/6.3V	445-3954-1-ND	8	Bobinado	
43	Cap Pol	C29	B	Polarized Capacitor (Radial)	33uF/10V	30uF	1	Bobinado	
44	Cap_7, Cap_7, Cap_10uF	C34, C109, C157	CAPC2012X135N	Capacitor (Semiconductor SIM Model), 0803	10uF/16V	587-1295-1-ND	3	Digi-Reel	
45	Cap_6	C43, C70, C74, C110, C119, C120, C127, C141, C329	CAPC3216X70N	Capacitor (Semiconductor SIM Model)	1uF/25V	9527761	9	Bobinado	
46	Cap Alu.SMD Case C	C56, C112	CAPAE530X540N	Polarized Capacitor (Radial)	10uF/50V	1868423	2	Digi-Reel	
47	Capacitor - polarized	C57, C183	CAPMP6032X280N	Polarised capacitor	10uF/20V	Farnell 2425550	2	Bobinado	
48	Capacitor	C68, C113, C115, C117, C137, C325	CAPC4532X250N	Capacitor (Semiconductor SIM Model)	100uF/6.3V	100uF/6.3V	6	Bobinado	
49	CAP_2	C69, C114, C116, C118, C138, C326	C0603	Capacitor	4.7uF/6.3V	2211163	6	Digi-Reel	
50	Cap_5	C72, C73, C121, C123, C129, C143, C328	CAPC3216X70N	Capacitor (Semiconductor SIM Model)	10uF/16V	Farnell 1657943	7	Digi-Reel	
51	Cap_3	C75, C125, C126, C130, C145, C330	C0603	Capacitor	1uF/16V	1907343	6	Digi-Reel	
52	Cap_4_1	C54, C76, C78, C82, C91, C93, C98, C101, C103, C106, C107, C131, C132, C133, C146, C150, C152, C331	C0603	Capacitor (Semiconductor SIM Model)	10nF	10nF	18	reel	

53	CAPACITOR POL	C83, C84, C89, C92	B	Capacitor	4.7uF	4.7uF	4	Reel 60	
54	Cap Semi	C144, C148	C0603	Capacitor (Semiconductor SIM Model)	150pF	150pF	2	Reel 100	
55	Cap Pol	C156, C182	CAPMP3528X210N	Polarized Capacitor (Radial)	10uF	Farnell 2217234	2	Bobinado	
56	Cap 1uF	C158, C165, C185, C205, C225	CAPC1005X55N	Case 0403	1uF/25V	2218855RL	5	100	
57	CAP_0	C159, C160, C161, C166, C169, C170, C171, C172, C173, C174, C175, C177, C178, C179, C180, C181, C186, C206, C226, C229, C230, C231, C232, C233, C237, C238, C239, C240, C241, C242, C243	CAPC1005X55N	Capacitor	100nF/16V	2768427	31	308	
58	CAP_10nF	C162, C163, C164, C167, C176, C187, C189, C190, C191, C192, C193, C194, C195, C196, C207, C227, C244	CAPC1005X55N	Capacitor	10nF/50V	1183559	17	Digi-Reel	
59	Cap_1nF	C168, C188, C208, C228	CAPC1005X55N	Capacitor	1000pF/50V	2210796	4	Bobinado	
60	Capacitor Ceramic	C184, C199	CAP1206 [3216]	Capacitor	2.2uF	2.2uF	2	Digi-Reel	
61	Capacitor Ceramic	C197	CAP1206 [3216]	Capacitor	1uF/25V		1	Digi-Reel	
62	Capacitor Ceramic	C198	CAP1210 [3225]	Capacitor	1uF	1uF 50V	1	Digi-Reel	
63	Res2	R1	R0603	Resistor	430k	430K	1	reel	
64	R0603 1%	(R2 NOT ASSEMBLED), R31, R33, R34, R35, R41, R64, R65, R66, R73, R74, R91, R92, R93, R95, R96, R97, R98, R147, R148	R0603	Resistor	10K	10K	19	reel	
65	R0603 1%	(R4, R20 NOT ASSEMBLED)	R0603	Resistor	0R	0R	0	0	
66	Res2	R5	R0603	Resistor	65K	65K	1	reel	
67	Res2	(R6 NOT ASSEMBLED)	R0603	Resistor	82R	82R	0	0	
68	Res2	R7	R0603	Resistor	240R	240R	1	reel	
69	Res2	R8	R0603	Resistor	3K	3K	1	reel	
70	Res2	R9, R10, R11, R13, R14, R15, R16, R17, R18, R19, R21, R22, R23, R24, R25	R0603	Resistor	10	10	15	reel	
71	R0603 1%	R12, R43, R89, R99, R100, R103, R104, R106, R108, R109, R114, R115, R116, R117, R118, R119, R120, R121	R0603	Resistor	50R	Equivalente 804-8741	18	reel	
72	Res2	R26	R0603	Resistor	80K6	80K6	1	Bobinado	
73	R0603 1%	R27, R76	R0603	Resistor	1K15	1K15	2	reel	
74	R0603 1%	R28, R72, R77	R0603	Resistor	3K57	3K57	3	reel	
75	R0603 1%	R29, R44, R45, R46, R47, R48, R49, R50, R51, R78, R79, R83	R0603	Resistor	510R	510R	12	reel	
76	R0603 1%	R30, R37, R38, R88, R110, R111, R112, R113	R0603	Resistor	1K	1K	8	reel	
77	R0603 1%	R32	R0603	Resistor	12K	12K	1	reel	
78	R0603 1%	R36	R0603	Resistor	2K	2K	1	reel	
79	R0603 1%	R39, R90	R0603	Resistor	25R	25R	2	reel	
80	R0603 1%	R40, R42, R94	R0603	Resistor	330R	330R	3	reel	
81	R0603 1%	R52, R53, R54, R55, R56, R57, R58, R59, R101, R102, R105, R107, R140, R141, R142, R143	R0603	Resistor	100R	100R	16	reel	
82	R0603 1%	R67	R0603	Resistor	4K53	4K53	1	reel	
83	R0603 1%	R68,	R0603	Resistor	4K75	4K75	1	reel	
84	R0603 1%	R69	R0603	Resistor	1K69	1K69	1	reel	
85	R0603 1%	R70,	R0603	Resistor	4K12	4K12	1	reel	
86	R0603 1%	R71,	R0603	Resistor	1K13	1K13	1	reel	
87	R0603 1%	R80, R81, R87, R122, R123, (R125 NOT ASSEMBLED)	R0603	Resistor	100K	100K	5	reel	
88	R0603 1%	R82, R75, R84, R86,	R0603	Resistor	4.99K	4K99	4	reel	
89	R0603 1%	R85	R0603	Resistor	2.49K	2K49	1	reel	
91	Resistor 0603 [1608]	R124	J1-0603	Resistor	2K55	2K55	1	Bobinado	
92	Resistor 0603 [1608]	R126	J1-0603	Resistor	33.2K	33K2	1	Bobinado	
93	Resistor 0603 [1608]	R127	J1-0603	Resistor	24K	24K	1	Bobinado	
94	Resistor 0603 [1608]	R128	J1-0603	Resistor	30.1K	30K1	1	Bobinado	
95	R0603 1%	R144	R0603	Resistor	1K	1K	1	reel	
96	R0603 1%	R146, R149	R0603	Resistor	4K7	4K7	2	reel	
97	TYCO_5767096-8	M1, M2	TYCO_5767096-8	38 Positions, Pitch 25 [0.64], Centerline Matched Impedance Vertical Receptacle (MICTOR)		1076633	2	Tube	
98	1364372-2	Ju1	1470156	USB 1.1, Right Angle, Thru-Hole, A Type, Receptacle, 4 Position, Natural		1076665	1	Tray	
99	Connector 26ab Female (2x13)	(J2, J3 NOT ASSEMBLED)	ERNI_154806	Connector 26ab Female (2x13)		Family	0	0	
100	PBSwitch	Power Boot	PB_TYCO_FSM5M			2468741	1	Bulk	
101	6339160-1	CLK & Trigger IN, LVDS Bus In, LVDS Bus Out	RJ45	SMT, Right Angle, Low Profile, with Outboard Fitting Nails PCB Jack		2059758	3	Cut Tape	
102	Header4	Boundary scan	TYCO_3-794630-4			Header4	1	Bulk	
103	Molex-4	Power	MOLEX			1557748	1	Bulk	
104	SW-PB	System Reset	PB_TYCO_FSM6JSMA	Switch		1555991	1	Bulk	
105	Header 3 90°	I2C_BUS, I2C BUS	MOLEX_22-27-2031 - 90°	Header, 3-Pin			2	Bulk	
106	JTAG	AS, JTAG	HDR2X5	Header, 5-Pin, Dual row			2	Bulk	
Approved				Notes	492				
				DO NOT ASSEMBLE COMPONENTS D1, F12, R2, R4, R6, R20, R60, R61, R62, R63, R125, R129(0R), J2, J3					