











Component list Control Board

Project: LMC400-ATC400

Part Number: 0017LMC02A0918

Company: Raymetrics

Report Date: 25/2/2019 10:57:33 πμ

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		23/2/19 10.37								
mn Name E	Part Type	Description	Value	Case	Manufacturer	Part Number	Quantity	Farnell	Mouser	RS
	Capacitor	MLCC, X7R, ±10%, (-55+125)°C	1uF	0805	KEMET	C0805C105K3RACTU	7	2395779	80-C0805C105K3R	6911167
	Capacitor	MLCC, X5R, ±10%, (-55+85)°C	10uF	1206	TDK	C3216X5R1H106K160AB	7	2346951	810-C3216X5R1H106K	7883076
	Capacitor	MLCC, X7R, ±10%, (-55+125)°C	100nF	0805	KEMET	C0805C104K5RACTU	19	1414664	80-C0805C104K5R	2644416
	Capacitor	MLCC, COG, ±2%,, (-55+125)°C	22pF	0805	AVX	08052U220GAT2A	2	7568568	581-08052U220G	6984052
	Capacitor	MLCC, COG, ±2%,, (-55+125)°C	27pF	0805	AVX	08052U270GAT2A	2	7568584	581-08052U270G	6984064
	Capacitor	MLCC, X7T, ±10%, (-55+125)°C	100nF	1206	KEMET	C1206C104K5RACTU	1	1414715	80-C1206C104K5R	5002310
	Capacitor	MLCC, X7T, ±10%, (-55+125)°C	330nF	1206	KEMET	C1206C334K5RACTU	1	1414733	80-C1206C334K5RAC	8030021
	LED	25mA, 2V, 633nm, 160°, 50mcd, (-30+85)°C	Red	0805	OSRAM	LSR976	2	1226392	720-LSR976-NR-1	4974804
	LED	20mA, 2.1V, 570nm, 120°, 50mcd, (-40+85)°C	Green	0805	KINGBRIGHT	KP-2012CGCK	2	2290331		4663807
	Diode TVS	TVS, 5V, 14V, 84W, (-65+150)°C		SOD-323	DIODES	D5V0L1B2WS-7	6		621-D5V0L1B2WS-7	7704774
	LED	20mA, 3.6V,nm, 130°, 450mcd, (-20+85)°C	White	0805	LITE-ON	LTW-170ZDC	1		859-LTW-170ZDC	7031199
	LED	20mA, 3.3V, 468nm, 130°, 180mcd, (-20+85)°C	Blue	0805	LITE-ON	LTST-C170TBKT	1		859-LTST-C170TBKT	6920913
	Diode	Schottky, 3A, 30V, 0.45V, (-65+150)°C	SSA33L	DO-214	VISHAY	SSA33L-E3/5AT	1	1336552	625-SSA33L-E3/5AT	7000981
	Fuse	1.1A, 16V, 210mO, PPTC, (-40+85)°C	1.1A, 16V	1812 (4532)	BOURNS	MF-MSMF110/16-2	1	1652170	652-MF-MSMF110/16-2	6478207
	Connector	RJ45 modular jack, PCB, right angle, 8/8	RJ45, 8/8	RJ45, THR, SIDE	TE	1-1705951-1	4	1284338	571-1-1705951-1	6154254
	Connector	USB-B, USB2, Throu, Right Angle	USB-B	TOTO, THIC, OIDE	TE	292304-1	1	1076665	571-292304-1	5298218
	Connector	USB-A, Stacked, Dual, Side, Throu	USB-A, Dual		TE	1903815-1	1	1902732	1903815-1	7060217
	Connector	Low VDC PS Connector	12V, 5A		CLIFF ELECTRONICS	FC681465	2	1854514	1903013-1	8051696
	Light Pipe		Light Pipe		DIALIGHT	515-1061F		1461585	645-515-1061F	5460362
	Light Pipe Header	PCB, 2-Ch, 3mm, Circular, Clear 2.54mm, 6 Contacts, Throu	Light Pipe 2x3, 2,54mm		AMP - TE	826632-3	2	3418492	571-826632-3	6695281
			1 1				<u> </u>		571-620032-3	0095261
	Ext, Connector	DC Plug, 9.5mm, 2.1mm,	12V, 5A		CLIFF ELECTRONICS	DCPP1-FLANGE	1	2455456		
	Ext, Connector	Cat5, RJ45, Plug	Cat5, 8/8		MH CONNECTORS	MHRJ458P8CR	4	3938256		8212949
	PCB Board	0017LMC02A0918			Beta LAYOUT	0017LMC02A0918	1			
	MOSFET	N, 360mA, 60V, 1.6R, 0.6nC, (-55+150)°C	360mA, 60V	SOT-23	NXP	2N7002P	1	1859848	771-2N7002P-215	7920765
	Resistor	±1%, 500mW, 150V, (-55+155)°C	10K	0805	VISHAY	CRCW080510K0FKEAH	19	1738972	71-CRCW080510K0FKEAH	8123375
	Resistor	±1%, 500mW, 10V, (-55+155)°C	470R	0805	VISHAY	CRCW0805470RFKEAHP	3	1738955	71-CRCW0805470RFKEAH	8123546
	Resistor	±1%, 500mW, 150V, (-55+155)°C	180R	0805	VISHAY	CRCW0805180RFKEAHP	1	1738949	71-CRCW0805180RFKEAH	8123417
	Resistor	±1%, 500mW, 150V, (-55+155)°C	18K	0805	PANASONIC	ERA6AEB183V	1	1738976	71-CRCW080518K0FKEAH	565908
	Resistor	±0.1%, 125mW, 100V, (-55+155)°C	12K	0805	PANASONIC	ERA6AEB123V	1	1577674	667-ERA-6AEB123V	566507
	Resistor	±1%, 500mW, 150V, (-55+155)°C	22R	0805	VISHAY	CRCW080522R0FKEAHP	2	1738936	71-CRCW080522R0FKEAH	8123489
	Resistor	±1%, 500mW, 150V, (-55+155)°C	15K	0805	VISHAY	CRCW080515K0JNEAIF	3	1738974	71-CRCW080515K0FKEAH	8123401
	Resistor	±1%, 0.5W, 150V, (-55+155)°C	1K5	0805	VISHAY	CRCW08051K50FKEAHP	2	1738961	71-CRCW08051K50FKEAH	8123445
	Resistor	±1%, 500mW, 150V, (-55+155)°C	27R	0805	VISHAY	CRCW080527R0FKEAHP	6	1738937	71-CRCW080527R0FKEAH	8123505
	Resistor	±5%, 0.125W, 150V, (-55+155)°C	2K2	0805	PANASONIC	ERJ6GEYJ222V	5	2057708	667-ERJ-6GEYJ222V	7326609
	Resistor	±1%, 500mW, 150V, (-55+155)°C	100R	0805	VISHAY	CRCW0805100RFKEAH	1	1738946	71-CRCW0805100RFKEAH	8123362
	Resistor	±1%, 500mW, 150V, (-55+155)°C	330R	0805	VISHAY	CRCW0805330RFKEAHP	1	1738953	71-CRCW0805330RFKEAH	8123524
	Resistor	±10%, 500mW, 25 Turns, (-55+150)°C	5K	3296Y	BOURNS	3296Y-1-502LF	1	9353631	652-3296Y-1-502LF	5220215
	Sw itch	SPST, 12V, 50mA, 1.24mm, 100Kcycles, (-20+85)°C	50mA, 12V		TE	FSMRA2JH	1	1555987	506-FSMRA2JH	4791520
	Sw itch	SPDT, 5A, 28V, 6Kcycles, RA, (-30+85)°C	5A, 28V		TE	AE101J1AQ004	1	2435371	506-AE101J1AQ004	7109268
	IC, H-Bridge	H-Bridge, 1A, 6-32V, (-40+85)°C	1A, 6-32V	SOP-8	ROHM	BD6231F-E2	4	1716265	755-BD6231F-E2	6996768
	IC, MCU	MCU, 8-bit, 32K, 16MHz, (-40+85)°C		TQFP-44	ATMEL	ATMEGA32U4-AU	1	2443182	556-ATMEGA32U4-AU	1310289
	IC, USB	HUB, USB-1.1, 3-Ch, 3.3V, (0+70)°C	3-Ch	LQPF-32A	TEXAS	TUSB2036VF	1	1610199	595-TUSB2036VF	6613403
	IC, USB	USB-1.1-UART, 12Mb/s, 1.8-5.25V, (-40+85)°C		SSOP-28	FTDI	FT232RL	1	1146032	895-FT232RL	406580
	VReq	1.2-37Vout, 4.2-40Vin, 500mA, (-40+125)°C	1.2-37 Vout	TO-252-3	TEXAS	LM317AMDT	1	9493301	926-LM317AMDT	5361647
	VReg	5Vout, 7-35Vin, 1A, (-40+125)°C	5 Vout	D-PAK (TO-	ON	MC7805ECDTX	1	2453981	512-MC7805ECDTX	8064103
	-			252AA)						
	VReg	3.3Vout, 6.2-15Vin, 800mA, (-40+125)°C	3.3 Vout	SOT-223	TEXAS	LM1117MP-3.3/NOPB	1	2781760	926-LM1117MP-3.3NOPB	1005930
	Header	2.54mm, 3 Contacts, Throu	1x2, 2,54mm		AMP - TE	825433-3	2	3417657	571-825433-3	6812408
	Resistor	0.125W, 150V, (-55+155)°C	0R	0805	VISHAY	CRCW08050000Z0EA	8	1469846	71-CRCW0805-0-E3	6790800
	Jumper	10A, 6.86mm, (-40 to 105)°C	2A		HARWIN	S1731-46R	1	2289771	855-S1731-46R	7884827
	Ext, Jumper	2.54mm, Red	Red		HARWIN	M7581-05	2	2396303		1613683
	Crystal	16MHz, ±20ppm, 18pF, (-20+70)°C	16MHZ, 18PF	HC-49US	ABRACON	ABLS-16.000MHZ-B2	1	2467720	815-ABLS-16-B2	7031818
	Crystal	6MHz, ±30ppm, 18pF, (-40+85)°C	6MHZ, 18PF	HC/49US	ABRACON	ABLS2-6.000MHZ-D4Y-T	1	2467742	815-ABLS2-6-D4Y-T	1710226
Appr	oved		Notes:			144				