



SUB-ASSEMBLY													
USAGE	#	NO.	4A203982			RELEASE DATE	03/09/18	P/L	REV.	REV.	Units to Total Cost per		
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393	1	TITLE	<b>Model 393 Sensor CMV12000 Brd</b>		PCB Assembly 103982	JOB#	N/A	2/12/2018	0	1	\$2,117.79 #####		
		# TO	MFGR		1	WORK ORDER #	N/A						
		NEXT	ASSY	4A-?????		NON STANDARD							
						NOTATIONS							
DESIGNATOR	ITEM	QTY	EXT	STK	ROHS	DESCRIPTION	PART #	MANUFAC	VENDOR	PURCH	UNIT	NEW	
NUMBER	#	REQ	QTY	CHK			#	TURER	VENDOR	PART #	PRICE	TOTAL STOCK	
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	0.5	1	1			Schematic 103982 (103982), Model 393	1D203982 Rev.0	Designed by Andrey Filippov					
	20	1	1			Fabrication (103982), Model 393	4F203982 Rev.0						
	21	1	1			Artwork (103982), Model 393	4G203982 Rev.0						
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U16	40	1	1		Y	Level Translator, Unidirectional, 5 bits, <b>1.1V</b> , SOT762-1	FXL5T244BQX	ON Semiconductor	Digi-Key	FXL5T244BQXC T-ND	1	1.5	1.5 0
U7	41	1	1		Y	Dual FF with preset and clear, <b>1.2V</b> , SOT762-1	74LVC74ABQ	Nexperia	Digi-Key	1727-7052-1-ND	1	0.39	0.39 0
U5, U8, U10, U12	42	4	4		Y	I2C 2Kb EEPROM with Temperature Sensor, <b>1.8V</b> , TDFN-8	MCP98244T-BE/MNY	Microchip	Digi-Key	MCP98244T-BE/MNYCT-ND	25	0	0 21
U11	43	1	1		Y	Oscillator MEMS, <b>25MHZ</b> , OSC4-2520	ASDMB-25.000MHZ-XY-T	Abracor Corporation	Digi-Key	535-11157-1-ND	1	3.64	3.64 0
U1	44	1	1		Y	12 MPix CMOS global shutter color sensor, UPGA-237	CMV12000-2E5C1PA	CMOSIS	Mouser	469-CMV12000-2E5C1PA	1	2030.8	2030.81 0
U15	45	1	1		Y	Clock Buffer, 8-channelr, 1.8V, VFQFN-32	CDCUN1208LP	Texas Instruments	Digi-Key	296-39988-1-ND	1	10.79	10.79 0
U4	46	1	1		Y	Dual Bidirectional I2C Bus Voltage-level Translator, X2SON-8, marked as <b>7F</b>	PCA9306DQER	Texas Instruments	Digi-Key	296-27957-1-ND	1	0.94	0.94 0
U13	47	1	1		Y	Four Channel MyltiSynth CLock Generator with Single low-jitter PLL, 1.8V, QFN-24-1MM	SI5338A-B-GM	Silicon Laboratories	Digi-Key	336-4326-1-ND	1	14.79	14.79 0
U2	48	1	1		Y	Hex Shmitt Inverter, SOT762-1	74LVC14ABQ	NXP Semiconductors	Digi-Key	568-3001-1-ND	1	0.89	0.89 0
U9, U17	49	2	2		Y	Quad buffer/line driver with 5 V tolerant input/outputs; 3-state, SOT762-1	74LVC125ABQ	Nexperia	Digi-Key	1727-3481-1-ND	2	0.38	0.76 0

DESIGNATOR	ITEM	QTY	EXT	STK	ROHS	DESCRIPTION	PART	MANUFAC		VENDOR	PURCH	UNIT		NEW
NUMBER	#	REQ	QTY	CHK			#	TURER	VENDOR	PART #	QTY	PRICE	TOTAL	STOCK
U6	50	1	1	Y		Single D-type Flip-Flop with Clear, WDFN-6, marked as <b>LFCT</b>	LTC6994CDCB-1	Linear Technology	Digi-Key	LTC6994CDCB-1	1	3.33	3.33	0
U3, U14	51	2	2	Y		Single Unidirectional Level Shifter, UFDFN-6, marked as <b>U2</b>	SN74AUP1T34DR YR	Texas Instruments	Mouser	595-SN74AUP1T34DRYR	2	0.59	1.18	0
						<b>Power Supply Modules</b>								
DC1-DC4	52	4	4	Y		450mA CMOS Voltage Regulator, <b>1.8V, 450mA</b> , XDFN-4EP, marked as <b>DN</b>	NCV8161AMX180 TBG	ON Semiconductor	Digi-Key	NCV8161AMX180TBGOSCT-ND	4	0.5	2	0
						<b>Resistors</b>								
R8	53	1	1	Y		Resistor, <b>22Ω, ±1%</b> , SMD 0201, marked as <b>22R0</b>	ERJ-1GEF22R0C	Panasonic	Digi-Key	P22.0ABCT-ND	1	0	0	0
R16-R18	54	3	3	Y		Resistor, <b>100Ω, ±1%</b> , SMD 0201, marked as <b>1000</b>	ERJ-1GEF1000C	Panasonic	Digi-Key	P100ABCT-ND	10	0.11	1.1	7
R2-R3, R7, R10-R15, R19	55	10	10	Y		Resistor, <b>1.27KΩ, ±1%</b> , SMD 0201, marked as <b>1271</b>	ERJ-1GEF1271C	Panasonic	Digi-Key	P1.27KABCT-ND	10	0.11	1.1	0
R5	56	1	1	Y		Resistor, <b>3.74KΩ, ±1%</b> , SMD 0201, marked as <b>3741</b>	AC0201FR-073K74L	Yageo	Digi-Key	YAG5207CT-ND	1	0.1	0.1	0
R1, R4	57	2	2	Y		Resistor, <b>20KΩ, ±1%</b> , SMD 0201, marked as <b>2002</b>	ERJ-1GEF2002C	Panasonic	Digi-Key	P20.0KABCT-ND	10	0.11	1.1	8
R6	58	1	1	Y		Resistor, <b>49.9KΩ, ±1%</b> , SMD 0201, marked as <b>4992</b>	ERJ-1GEF4992C	Panasonic	Digi-Key	P49.9KABCT-ND	1	0.11	0.11	0
R9	59	1	1	Y		Jumper, <b>0Ω</b> , SMD 0201, marked as <b>0</b>	ERJ-1GE0R00C	Panasonic	Digi-Key	P0.0AGCT-ND	1	0.09	0.09	0
						<b>Capacitors</b>								
C26, C28	60	2	2	Y		Capacitor, Ceramic Chip, <b>0.01µF, 6.3V, C-0201</b>	ECJ-ZEB0J103K	Panasonic	Digi-Key	399-1278-1-ND	10	0.1	1	8
C1-C4, C6, C8-C10, C13-C14, C18, C20-C21, C24-C25, C27, C30-C32, C45-C48, C60-C113	61	77	77	Y		Capacitor, Ceramic Chip, <b>0.1µF, 6.3V, C-0201D</b>	ECJ-ZEB0J104M	Panasonic	Digi-Key	399-3027-1-ND	100	0.0466	4.66	23
C35-C36, C38, C40-C41, C43-C44, C51-C53, C55-C56, C58-C59	62	14	14	Y		Capacitor, Ceramic Chip, X7R,10%, <b>4.7µF, 6.3V, C-0603</b>	CL10B475KQ8NQ NC	Samsung	Digi-Key	1276-2087-1-ND	14	0.099	1.386	0
C33-C34, C37, C39, C42, C49-C50, C54, C57	63	9	9	Y		Capacitor, Ceramic Chip, 20%, t=1.9mm, <b>150µF, 6.3V, C-1206</b>	GRM31CR60J157 ME11L	Murata	Digi-Key	490-13969-1-ND	10	0.666	6.66	1
C5, C7, C11-C12, C15-C17, C19, C22-C23	64	10	10	Y		Capacitor, Ceramic Chip, X7S,20%, <b>2.2µF, 10V, C-0402</b>	C1005X7S1A225K 050BC	TDK	Digi-Key	445-9097-1-ND	10	0.28	2.8	0

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L2	65	1	1	1	Y	SMD Inductor, 600 Ohm, <b>600Unknown inductance units - "OHM", 300mA, SMD 0402</b>	BLM15HD601SN1 D	Murata	Digi-Key	490-4002-1-ND	1	0	0	0
L1	66	1	1	1	Y	SMD Inductor, 600 Ohm, 230 mOhm DC, <b>600Unknown inductance units - "OHM", 900mA, SMD 0402</b>	BLM15PX601SN1 D	Murata	Digi-Key	490-9657-1-ND	1	0.15	0.15	0
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J1-J8	67	8	8	8	Y	0.5 mm-Pitch Vertical Slide-Lock FPC Connector, 30 pos., FH1230S05SV	FH12-30S-0.5SV-55	Hirose	Digi-Key	HFL130CT-ND	8	3.11	24.88	0
J9	68	1	1	1	Y	Connector Header 40 pins, 0.5mm pitch, DF1240DS05V	DF12-40DS-0.5V	Hirose	Digi-Key	H5217CT-ND	1	1.63	1.63	0