


<b>Model 313</b>		 <b>Elphel, Inc</b> <small>http://www.elphel.com</small>	2 OF 1
<b>Sensor MI-1300 Brd</b>			DESIGNED <b>Andrey Filippov</b>
NEXT ASSY		<b>1D20318</b>	DRAWN <b>Andrey Filippov</b>
USED	QTY 1	REV 0 ECN #	DATE <b>05/21/2003</b>
FILE 10318	10318	DATE	PRINTED 5/24/2003 AT 8:56:36 PM

SUB-ASSEMBLY												
USAGE	#		NO.	4A20318	RELEASE DATE	08/08/03	P/L	REV.	REV.	Units to	Total	Cost per
313	1		TITLE	Model 313 Sensor MI-1300 Brd PCB Assembly 10318	JOB#	N/A	5/21/2003	LTR	DATE	Build	Cost	Unit
		# TO	MFGR	1	WORK ORDER #	N/A						
		NEXT	ASSY	4A-?????	NON STANDARD							
DESIGNATOR	ITEM	QTY	EXT	STK	DESCRIPTION	PART	MANUFAC	VENDOR	PURCH	UNIT	TOTAL	NEW
NUMBER	#	REQ	QTY	CHK		#	TURER	VENDOR	QTY	PRICE		STOCK
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<b>Related Documents</b>												
	0.5	1	1		Schematic 10318 (10318), Model 313	1D20318 Rev.0	Designed by Andrey Filippov					
	20	1	1		Fabrication (10318), Model 313	4F20318 Rev.0						
	21	1	1		Artwork (10318), Model 313	4G20318 Rev.0						
<b>Integrated Circuits</b>												
U1	40	1	1		1280x1024 1/2" CMOS Image Sensor, 3.3V, MICRONCLCC-48	MT9M013C12STC	Micron	Edge Electronics	1	30	30	0
<b>Power Supply Modules</b>												
DC3	41	1	1		Regulated Low-Noise Charge Pump DC/DC Converter, 5V, 300mA, HTSSOP-20	TPS60110PWP	Texas Instruments	Digi-Key	1	3.89	3.89	0
DC1-DC2	42	2	2		Micropower 250 mA Low-Noise Ultra Low- Dropout Regulator, 3.3V, 700mA, SOT-23- 5	LP2992AIM5-3.3	National Semiconduc tor	Digi-Key	2	1.39	2.78	0
<b>Diodes</b>												
CR1	43	1	1		Dual Diodes, Common Anode, Low Leakageseries, 100V, 250mA, SOT-23- 123, marked as D63	FLLD263	Zetex	Digi-Key	1	0.45	0.45	0
<b>Resistors</b>												
R1	44	1	1		Resistor, 1.5KΩ, SMD 0603, marked as	ERJ-3GEYJ152V	Panasonic	Digi-Key	10	0.08	0.8	9
RN1-RN2	45	2	2		Resistor Network - 8 isolated, 22Ω, EXB- 2HV, marked as 220	EXB-2HV220JV	Panasonic	Digi-Key	10	0.18	1.8	8
<b>Capacitors</b>												
C3-C4	46	2	2		Capacitor, Film, 10nF, 16V, ±2%, C-0805	ECH-U1C103GX5	Panasonic	Digi-Key	10	0.375	3.75	8
C1, C7-C8	47	3	3		Low ESR Tantalum Chip Capacitor with Polymer Electrode, 68µF, 4V, SMD B	T520B686M004A S	Kemet	Digi-Key	3	1.1	3.3	0
C2, C9	48	2	2		Low ESR Tantalum Chip Capacitor with Polymer Electrode, 47µF, 6.3V, SMD B	T520B476M006A S	Kemet	Digi-Key	2	1.1	2.2	0
C10-C12, C16- C18, C22	49	7	7		Capacitor, Ceramic Chip, 0.1µF, 25V, C- 0603D	06032F104Z8B20 D	Phycomp	Digi-Key	10	0.064	0.64	3

DESIGNATOR	ITEM	QTY	EXT	STK		PART	MANUFAC		VENDOR	PURCH	UNIT		NEW
NUMBER	#	REQ	QTY	CHK	DESCRIPTION	#	TURER	VENDOR	PART #	QTY	PRICE	TOTAL	STOCK
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C13-C15, C19-C21	50	6	6		Capacitor, Ceramic Chip, <b>1000pF</b> , C-0603	<a href="#">06032R102K9B20D</a>	Phycomp	Digi-Key	311-1080-1-ND	10	0.055	0.55	4
C5-C6	51	2	2		Capacitor, Ceramic X5R, <b>2.2µF</b> , C-0805	<a href="#">ECJ-2YB0J225K</a>	Panasonic	Digi-Key	PCC1923CT-ND	10	0.47	4.7	8
					<b>Inductors and LC filters</b>								
LC1-LC2	52	2	2		Chip EMI Filter, <b>10000PF</b> , LC4518	<a href="#">EXC-CET103U</a>	Panasonic	Digi-Key	P9832CT-ND	10	0.685	6.85	8
					<b>Connectors</b>								
J1	53	1	1		0.5 mm-Pitch Slide-Lock FPC Connector, top contact, 30 pos., XFL-3025-1	<a href="#">XF2L-3025-1</a>	Omron	Digi-Key	OR692CT-ND	1	1.6	1.6	0
					<b>Sockets and Matching Parts</b>								
XJ1	54	1	1		Flex Cable, 0.5 mm pitch, 30 conductors, 2 in long, 050-30-51B	<a href="#">050-30-51B</a>	Parlex	Digi-Key	HFF-30U-02-ND	1	3.83	3.83	0