
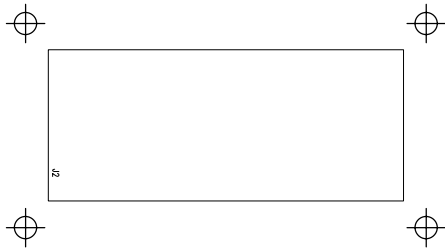


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Model 353				1 OF 1
IMU Adapter				DESIGNED Andrey Filippov
NEXT ASSY	1D203695		DRAWN Andrey Filippov	1
USED	QTY 1	REV A ECN #	DATE 02/11/2011	
FILE 103695A	803695	DATE 05/11/2011	PRINTED 7/26/2011 AT 6:32:20 PM	

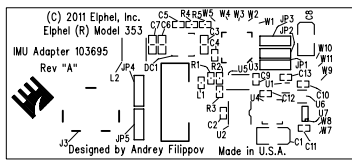
SUB-ASSEMBLY														
USAGE	#		NO.			RELEASE DATE	07/26/11	P/L	REV.	REV.	Units to	Total	Cost per	
353	1		TITLE			JOB#	N/A	2/11/2011	A	5/11/2011	1	\$41.47	\$41.47	
Model 353 IMU Adapter PCB Assembly 803695														
# TO	MFGR					WORK ORDER #								
NEXT	ASSY					NON STANDARD NOTATIONS								
DESIGNATOR	ITEM	QTY	EXT	STK	ROHS	DESCRIPTION	PART #	MANUFAC	VENDOR	VENDOR	PURCH	UNIT	TOTAL	NEW
NUMBER	#	REQ	QTY	CHK				TURER	VENDOR	PART #	QTY	PRICE	TOTAL	STOCK
Related Documents														
	0.5	1	1			Schematic 103695a (803695), Model 353	1D203695 Rev.A	Designed by Andrey Filippov						
	20	1	1			Fabrication (803695), Model 353	4F203695 Rev.A							
	21	1	1			Artwork (803695), Model 353	4G203695 Rev.A							
Integrated Circuits														
U2	40	1	1		Y	5-tap Delay Line, 20NS , uMAX-8, marked as D6	DS1100LU-20+	Maxim	Digi-Key	DS1100LU-20+-ND	1	8.76	8.76	0
U3	41	1	1		Y	8 bit I2C 8-bit I/O port with 2Kb EEPROM, HVQFN-16	PCA9500BS	NXP Semiconductors	Digi-Key	568-3351-1-ND	1	1.78	1.78	0
U4	42	1	1		Y	Dual FF with preset and clear, VQFN-14	74AHC74BQ	NXP Semiconductors	Mouser	771-AHCBQ115	1	0	0	0
U1	43	1	1		Y	Dual Shmitt Inverter, UDFN-6	NLU2G14MUTCG	ON Semiconductor	Digi-Key	NLU2G14MUTCGOSCT-ND	1	0.57	0.57	0
U7	44	1	1		Y	Single 2-input MUX, SOT-363, marked as YP	74LVC1G157GW	NXP Semiconductors	Digi-Key	568-3008-1-ND	1	0.55	0.55	0
U6	45	1	1		Y	Single D-type Flip-Flop, SOT-553, marked as D6	SN74LVC1G79DR LR	Texas Instruments	Digi-Key	296-18019-1-ND	1	0.58	0.58	0
U5	46	1	1		Y	Single D-type Flip-Flop with Clear, WDFDN-6, marked as LFCT	LTC6994CDCB-1	Linear Technology	Digi-Key	LTC6994CDCB-1	1	3.33	3.33	0
Power Supply Modules														
DC1	47	1	1		Y	Low Input Voltage Boost Converter, Adjustable, ADJ , 300mA , VFDFN-10, marked as BRR	TPS61200DRCT	Texas Instruments	Digi-Key	296-21683-1-ND	1	3.9	3.9	0
Resistors														

DESIGNATOR	ITEM	QTY	EXT	STK	ROHS		PART	MANUFAC		VENDOR	PURCH	UNIT		NEW
NUMBER	#	REQ	QTY	CHK		DESCRIPTION	#	TURER	VENDOR	PART #	QTY	PRICE	TOTAL	STOCK
-----	----	---	----	---	----	-----	-----	-----	-----	-----	-----	----	----	----
R1	48	1	1		Y	Resistor, 10KΩ , \pm 1%, SMD 0402, marked as 1002	RC0402FR-0710KL	Yageo	Digi-Key	311-10.0KLRCT-ND	10	0.094	0.94	9
R2	49	1	1		Y	Resistor, 20KΩ , \pm 1%, SMD 0402, marked as 2002	RC0402FR-0720KL	Yageo	Digi-Key	311-20.0KLRCT-ND	10	0.094	0.94	9
R5	50	1	1		Y	Resistor, 150KΩ , \pm 1%, SMD 0402, marked as 1503	RC0402FR-07150KL	Yageo	Digi-Key	311-150KLRCT-ND	10	0.094	0.94	9
R3	51	1	1		Y	Resistor, 287KΩ , \pm 1%, SMD 0402, marked as 2873	ERJ-2RKF2873X	Panasonic	Digi-Key	P287KLCT-ND	10	0.098	0.98	9
R4	52	1	1		Y	Resistor, 845KΩ , \pm 1%, SMD 0402, marked as 8453	ERJ-2RKF8453X	Panasonic	Digi-Key	P845KLCT-ND	1	0.06	0.06	0
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C1	53	1	1		Y	Low profile Tantalum Chip Capacitor, ESR=1.1 Ohm, 47μF , 4V , 3216-08	F950G476MQAA Q2	Nichicon	Digi-Key	493-2891-1-ND	10	0.578	5.78	9
C3, C6-C7	54	3	3		Y	Capacitor, Ceramic Chip, X5R,20%, 10μF , 6.3V , C-0603	ECJ-1VB0J106M	Panasonic	Digi-Key	PCC2395CT-ND	3	0.45	1.35	0
C8	55	1	1		Y	General Purpose Tantalum Chip Capacitor, 100μF , 6.3V , 3216-12	TCTAL0J107M8R	Rohm	Digi-Key	511-1498-1-ND	1	0.75	0.75	0
C2, C4-C5, C9-C13	56	8	8		Y	Capacitor, Ceramic Chip, 0.1μF , 10V , C-0402D	C0402C104K8PA CTU	Kemet	Digi-Key	399-3027-1-ND	10	0.083	0.83	2
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L2	57	1	1		Y	SMD Inductor, 82mOhm, 3mm x 3mm, 2.2μH , 1.15A , L-1212	LQH3NPN2R2NJ0 L	Murata	Digi-Key	490-5344-1-ND	1	0.37	0.37	0
L1	58	1	1		Y	SMD Inductor, 120 Ohm, 1.2A , SMD 0402	MPZ1005S121C	TDK	Digi-Key	445-2981-1-ND	1	0	0	0
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J3	59	1	1		Y	1.25mm Pitch Super Low profile Crimping Connector, 2 pins, Right angle SMT header, 2 contacts, 150V , 1A , DF142P125H	DF14-2P-1.25H-55	Hirose	Digi-Key	H10311-ND	1	1.25	1.25	0
J13	60	1	1		Y	1.25mm Pitch Super Low profile Crimping Connector, 2 pos., Crimp Socket, 150V , 1A , DF142S125C	DF14-2S-1.25C	Hirose	Digi-Key	H1563-ND	1	0.54	0.54	0
J1	61	1	1		Y	0.5 mm-Pitch Flip-Lock FPC Connector, top contact, 10 pos., FH12A-10S-0.5SH55	FH12A-10S-0.5SH55	Hirose	Digi-Key	HFK110CT-ND	1	1.77	1.77	0
J2	62	1	1		Y	Double Row Socket, Low profile, 1mm grid, 24 pos, CLM-112-02	CLM-112-02	Samtec	Digi-Key	SAM1129-12-ND	1	5.5	5.5	0
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XJ13	63	2	2			1.25mm Pitch Super Low profile Crimping Connector, 26-28AWG Crimp Gold Terminal, DF142628SCFA	DF14-2628SCFA	Hirose	Digi-Key		0	0	0	-2



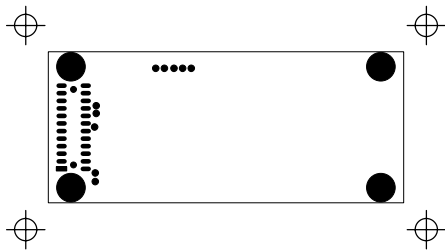
SILKSCREEN TOP			

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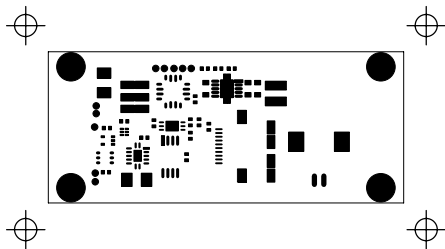
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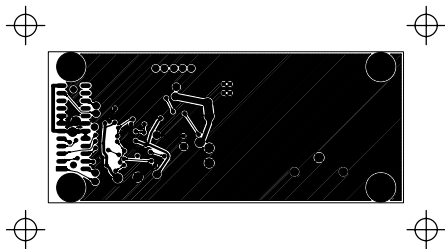
	SOLDER MASK TOP		

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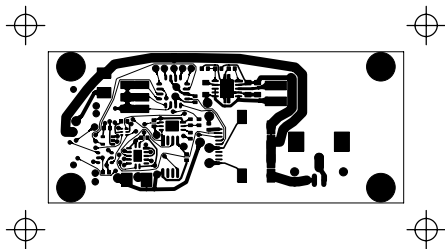
		SOLDER MASK BOTTOM	

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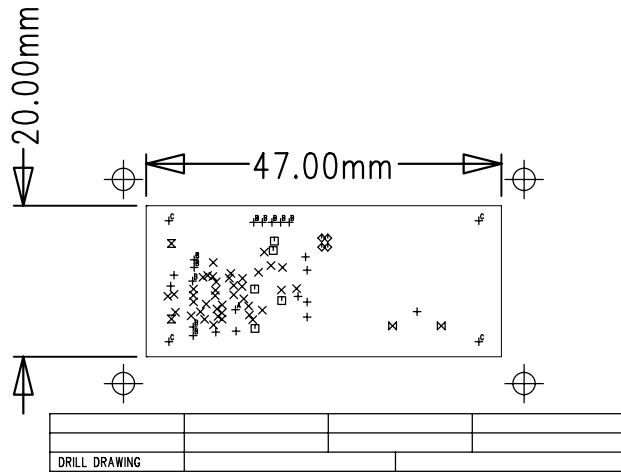
TOP SIDE (LAYER-1)			
	COMPONENT COPPER TOP (L-18)	COMPONENT COPPER BOTTOM (L-19)	

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			BOTTOM SIDE (LAYER-4)

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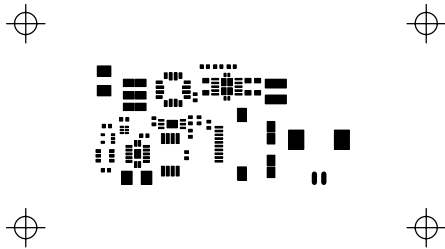
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SIZE	QTY	SYM	PLTD
32	10	+	PLTD
10	40	×	PLTD
22	5	□	PLTD
11.81	4	◇	PLTD
22.05	2	⊗	PLTD
43.31	2	⊗	NPLTD
9.84	1	A	PLTD
25	10	B	PLTD
87	4	C	NPLTD



	PASTE MASK TOP		

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		PASTE MASK BOTTOM	

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