

Component List

Bill of Materials For Project [0301-MMFE-8.PrjPcb] (No PCB Document Selected)



Source Data: 0301-MMFE-8.PrjPcb
 Project: 0301-MMFE-8.PrjPcb
 Variant: None

Report Date: 5/13/2014 4:21:02 PM
 Print Date: 5/30/2014 4:40:52 PM

#	Quantity	Designator	Description	#Column Name	MFGPN	Footprint	DNP	Size	Watt	Cost	Availability	Size mm	Power W	Cost	Received
1	4	B1, B2, B3, B4	Single Terminal Socket		NA	MTG300_600		255	0	0	NA	1020	0	0	0
2	109	C11, C12, C13	CAP CER 4.7uF 0402 6.3V 20% X5R		GRM155R60J475ME87D	CAPC.0402		5	0	0.02	13K-Arrow	54.5	0	2.18	0
3	164	C21, C22, C23	Cap Cer 0.22uF 0201 6.3V 20% X5R		TY_JMK063B.J22AMP-F	CAPC.0201		18	0	0.0340	9k-AV	29.52	0	5.576	0
4	112	C15, C16, C17	CAP CER 100uF 6.3V 20% X5R 1206		CL31A107M0JHNNNE	CAPC.1206		5.12	0	0.15	7K-DK	573.44	0	16.8	0
5	19	C136, C138, C139	CAP Cer 0.01uF 10V 10% X5R C0201		12012D10KAT2A	C0201		5	0	0.085	13K-AV	9.5	0	0.1615	0
6	7	C460, C461, C468	CAP Cer 0.001uF 25V 10% X7R C0201		GRM033R7E102KA01D	C0201		5	0	0.03	250K-AV	3.5	0	0.021	0
7	12	C52, C80, C152	CAP Cer 0.1uF 10V 10% X5R C0201		120116D10KAT2A	C0201		5	0	0.03	13K-AV	6	0	0.36	0
8	6	C462, C467, C477	CAP CER 10uF 6.3V 20% X5R 0402		CL05A109M02SNLNC	CAPC.0402		1.67	0	0.18	1M-AV	10.02	0	1.08	0
9	10	C144, C469, C470	CAP Cer 189pF 50V 5% C0201		GRM0335C1H180JA01D	C0201	[NoValue]	5	0	0.003	250K-AV	5	0	0.003	0
10	2	C62, C63	Cap Cer 0.22uF 0402 50V 10% X5R		UMK105B.J22AKV-F	CAPC.0402		5	0	0.023	30k-AV	1	0	0.046	0
11	4	C480	CAP CER 10uF 35V 10% X5R 1206		GMK316B.J10EKL	1206		5.12	0	0.078	64K-AV	20.48	0	0.312	0
12	1	C145	CAP CER 47pF 25V 5% X7R 0201		GRM0335C1E470JA01D	C0201		5	0	0.004	15K-AV	0.5	0	0.004	0
13	2	C146, C147	CAP Cer 470pF 25V 10% X7R 0201		GRM033R7E471KA01D	C0201		5	0	0.004	15K-AV	1	0	0.008	0
14	2	CBL1, CBL2	miniSAS 41 36 ckt		8F36-AA105-1.00	NA		0	0	11.11	6 week - AV	0	0	22.22	0
15	128	D6, D7, D8, D9	TVS with Ultra Low Capacitance SOT-563-6		NUP4114UPXV6T1G	SOT-563-6		2.89	0	0.6	4K-DK	369.92	0	76.8	0
16	1	D129	Blue LED Vh=2.7V 0603 SMD		LTST-C193BTKT-5A	LED_LITE-LTST-C191TBKT-2		1.28	0.02	0.47	7K-DK	1.28	0.02	0.47	0
17	10	D135, D136, D137	LED GREEN CLEAR 0603 SMD		LTST-C190GKT	LED_LITE-LTST-C191TBKT-2		1.28	0.02	0.47	302K-DK	12.8	0.2	0.47	0
18	1	D131	Silicon Switching Diode for High-Speed Switching		BA555	SOT-23		7.25	0.025	0.07	9K-DK	7.25	0.025	0.07	0
19	2	D148, D151	DFLS130L-7 in a PowerDI_123 Vh=3		DFLS130L-7	PowerDI_123		5.8	2	0.1	15K-Arrow	11.6	0.4	0.2	0
20	2	D149, D152	LED, Red, LTST-C190CKT, 0603		LTST-C190CKT	LED_LITE-LTST-C191TBKT-2		1.28	0.02	0.35	170K-DK	2.56	0.04	0.7	0
21	2	DDCC1, DDCC2	Dual, 26VIn, 4A DDCC		LTM4619EVFPBF	ltm4619		333.75	0.02	28.62	1K-DK	787.5	0.04	57.24	0
22	2	F1, F2	PTC Resettable Fuse 1.5A 24VDC		1812			16.1	0	21	22K-AV	32.2	0	0.42	0
23	6	FTG3, FTG4	Fiducial Target		FIDUCIAL_TARGET_S100-200	FIDUCIAL_TOP_S100-200		2.25	0	0	NA	13.5	0	0	0
24	2	J1, J2	Elastomeric Connector		ZEBRA	zebra		1025	0	5	Sarah	2050	0	22	0
25	1	J9	2.0mm TxD 2xshrouded header		MLX_87832-1420	CON_MLX-87332-1420-2		105	0	1.28	4710-Ali Elec	105	0	1.28	0
26	3	J11, J12, J13	Connector HDMI 19 Male + 1 Shield		MOLEX_46765-1001	HDM-0467651001		448.75	0	1.22	1K-Hellind	1346.25	0	3.66	3
27	5	J23	CONN JACK MMX STR PCB		0734151471	COAX_2.54MM		12.32	0	3.10	915-DK	61.6	0	15.5	0
28	2	J20, J21	75783-0132		075783-0132	MOLEX_36TH		400	0	5.47	2K-Arrow	800	0	10.94	0
29	1	J24	CONN HEADER RT/A 156 APOS 30AU		3-841210-4	CON_TE-840445-4		160	0	1.9	2K-DK	160	0	1.9	0
30	1	J25	RJ45 MAC w/usb 748811120R		748811120R	MAC64-748811120R		352	0.05	7.03	120-DK	352	0.05	7.03	0
31	1	J15, J16	Jumper 3-pad 0R0 0402 RES-3pad/PPR R0402-DUAL_JMP		CRCW040200020E0D	R0402-DUAL_JMP		0.5	0	0.01	1M-AV	1	0	0.02	0
32	96	L6, L7, L8, L9, L10	FB SM 220 ohm @100MHz 2000mA 0.25 0.045 ohm @DC L0805		BLM21PG221SN1D	L0805	[NoValue]	5.42	0.1	0.4	200K-AV	520.32	9.6	3.84	0
33	1	P1	Header, 16-Pin, Dual row		1010897162	HDR2X8		40.64	0	1.09	20K-AV	40.64	0	1.09	0
34	8	P7, P8, P9	Header, 2-Pin		102972-2	HDR1X2		10	0	0.13	10K-Mou	80	0	1.04	0
35	0	PCB1	0301-MMFE-8 - 3 week layout		0301-MMFE-8	NA		0	0	919.60	3 weeks	0	0	0	0
36	0	PCB2	0301-MMFE-8 - 2 week turn		0301-MMFE-8	NA		0	0	615.86	2 weeks	0	0	0	0
37	0	PCB3	0301-MMFE-8 - assembly - 10 day turn		0301-MMFE-8	NA		0	0	1075.06	2 weeks	0	0	0	0
38	23	P54, P55, P56	Adjustable 1A Single Resistor Low Dropout Regulator		LT3080EDDFTRPBF	lt3080		9	0.02	4.36	5k-DK	207	0.46	100.28	0
39	5	Q21	N-Channel MOSFET		DMG1012T-SOT523	SOT_23_N		4	2.2	0.03	450K-AV	20	1	0.15	0
40	1024	R6, R7, R8, R9	RES 248R 50mW 0.01 R0201		ER-110GF248R9C	C0201		18	0.05	0.01	1M-AV	184.32	51.2	10.24	0
41	7	R1049, R1051	RES 499R 62mW 0.01 R0402		CRCW0402499R9FKED	RESC.0402		0.5	0	0.01	5M-AV	3.5	0	0.07	0
42	19	R1028, R1029	RES 120K 62mW 0.01 R0402		CRCW0402120KFKED	RESC.0402		0.5	0	0.01	1M-AV	9.5	0	0.19	0
43	9	R1048, R1053	RES 100K 62mW 0.01 R0402		CRCW0402100KFKED	RESC.0402		0.5	0	0.01	1M-AV	4.5	0	0.09	0
44	25	R1037, R1038	RES 4K97 62mW 0.01 R0402		CRCW04024K97FKED	RESC.0402		0.5	0	0.01	1M-AV	12.5	0	0.25	0
45	2	R1033, R1122	RES 22R1 62mW 0.01 R0402		CRCW040222R1FKED	RESC.0402		0.5	0	0.01	1M-AV	1	0	0.02	0
46	21	R1043, R1057	R0402, RES 0R0 62mW 0.01 R0402, RES 100R 62mW 0.01 R0402, RES 100R		CRCW040200020E0D, CRCW040200020E0D, CRCW040200020E0D	RESC.0402	[NoValue]	0.5	0	0.01	1M-AV	10.5	0	0.21	0
47	3	R1096	RES 300R 62mW 0.01 R0402		CRCW0402300RFKED	RESC.0402		0.5	0	0.01	1M-AV	1.5	0	0.03	0
48	11	R1093, R1094	RES 1M 62mW 0.01 R0402		CRCW04021M00FKED	RESC.0402		0.5	0	0.01	1M-AV	5.5	0	0.11	0
49	1	R1078	RES 180K 62mW 0.01 R0402		CRCW0402180KFKED	RESC.0402		0.5	0	0.01	1M-AV	0.5	0	0.01	0
50	2	R1081, R1082	RES 150 62mW 0.01 R0402		CRCW0402150RFKED	RESC.0402		0.5	0	0.01	1M-AV	1	0	0.02	0
51	2	R1083, R1084	RES 48K7 62mW 0.01 R0402		CRCW040248K7FKED	RESC.0402		0.5	0	0.01	1M-AV	1	0	0.02	0
52	1	R1086	RES 28K 62mW 0.01 R0402		CRCW040228K0FKED	RESC.0402		0.5	0	0.01	1M-AV	0.5	0	0.01	0
53	84	R1099, R1100	RES 100R 62mW 0.01 R0201		CRCW0201100RFKED	C0201		0.5	0.014	0.01	1M-AV	4.2	1.176	0.84	0
54	3	R1141	RES 499R 62mW 0.01 R0402		CRCW0402499R9FKED	RESC.0402		0.5	0	0.01	1M-AV	1.5	0	0.03	0
55	7	R1116, R1119	RES 1K 62mW 0.01 R0402		CRCW04021K00FKED	RESC.0402		0.5	0	0.01	1M-AV	3.5	0	0.07	0
56	1	R1137	RES 10R 62mW 0.01 R0805		CRCW080510R0KFA	R0805		2.5	0	0.01	1M-AV	2.5	0	0.01	0
57	16	R1214, R1219	RES 100K 50mW 0.01 R0201		C0201			0.2	0	0.01	1M-AV	3.2	0	0.16	0
58	1	BP1	4-Resistor Array 3.2x1.6mm		Bourns_CAY18-472J4LF	RPAK4LCC-2		5.12	0	13	910-AV	5.12	0	0.13	0
59	1	SW1	SW_PB_SPS1T_4POS_SMT		8-1437565-0	SW_PB_SPS1T_4POS_SMT		20	0	0.81	0	20	0	0.81	0
60	0	U6, U7, U8	Micro Megas Analog Input ASIC Version 2		VMM2			196	0.640	40	BNL	0	0	0	0
61	1	U9	Pb-Free		XC7A200T-1FBG484I	FBG484		529	8	241	250-AV	529	8	241	0
62	1	U10	NOR Flash Serial-SPI 1.8V 256Mbit 256M128M64M x 1bit/2bit/4bit 8ns 8-Pin DFN EP		n25q256a11ef840	S09W		48	0.036	3.2	250-AV	48	0.036	3.2	0
63	2	U11, U14	4-bit non-inverting translator 1.2 V to 5 V		TXB0104RUT	RUT-N12_OFN127P600-8N		4	0	0.75	1200-AV	8	0	1.5	0
64	1	U12	Ethernet 10/100/1000 GMI to CU 88E1111-B2-BAB1C000 TFBGA		88E1111-B2-BAB1C000	TFBGA117		162	7	15	10K-AV	162	0.7	15	0
65	1	U13	Osc SM 50MHz 50ppm 15pF 2.5mm x 2mm OSC-4 XTAL_KC2520		XC2520S0.0000C10E00	XTAL_KC2520		5	0.020	3.21	13K-AV	5	0.02	3.21	0
66	2	X1, X4	CRYSTAL 25.000MHz SMT 18PF		ABM6-25.000MHz-B2-T	abm6		20	12.5	1	3000-AV	40	25	2	0
67	1	X2	Osc SM LVDS 200MHz DSC1123 / S630 LVDS OSC		DSC1123D2-200.0000T	XTAL_S630		35	0.1	1	200-AV	35	0.01	1	0
68	1	X3	IO CLK GEN ETH LVDS 8TSSOP		IC944A0180-01LF	TOPF9440180X2000-8N		19.2	0.2945	1.1	10K-AV	19.2	0.2945	1.1	0
69	1	X5	Osc SM LVDS 200MHz DSC1123 / S630 LVDS OSC		DSC1123D2-200.0000T	XTAL_S630		35	0.80	1	70-DK	35	0.08	1	0
70	1	Z1	Elastomeric Connector Retainer		ZEBRA	Zebra Holster		2050	0	5	Sarah	2050	0	58.23	0

Assembly Quote

Call Toll Free 1-888-562-3631



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Complete 2 easy steps to get your *INSTANT* online Assembly Quote:

1. Enter Number of Boards to be quoted and Assembly Spec Quantities.
2. Once you calculate your quote, you will be able to print and/or email the quote (attaching BOM and CPL to email is optional).

Part:301-mmfe-8	Revision:a	Date:5/13/2014	Quote:78347
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1.) Enter Quantities:

Part Number:	<input type="text" value="301-mmfe-8"/>	Revision:	<input type="text" value="a"/>
Qty of boards:	<input type="text" value="5"/> <input type="text" value="10"/> <input type="text" value="50"/>	# of BOM Line Items:	<input type="text" value="75"/>
SMT Placements/board:	<input type="text" value="2000"/>	Thru-Hole Placement/board:	<input type="text" value="3"/>
Fine Pitch Placements/board:	<input type="text" value="10"/>	BGA/Leadless Placement/board:	<input type="text" value="10"/>
ITAR: <input type="radio"/> Yes <input checked="" type="radio"/> No What is ITAR? <input checked="" type="checkbox"/> SMT both sides? <input type="checkbox"/> Lead free			
<input type="button" value="Calculate"/>			

Assembly Labor Unit Price: (If you want turn-key, submit BOM below and request parts pricing.)

<u>Qty</u>	<u>2 day</u>	<u>5 day</u>	<u>10 day</u>
5	\$1,240.45	\$895.88	\$689.14
10	\$975.85	\$704.78	\$542.14
50	\$764.17	\$551.90	\$424.54

2.) Email Quote:

Send Assembly Quote to email address below.

Email Address:

Send Quote (BOM and CPL optional) to OneStopAssembly

Attach BOM(Bill of Materials) to email:

Attach CPL(Centroid Part XY) to email:

Note:

1. If specifications are incorrect upon receipt of Bill of Material(BOM), a salesperson will contact you with modified pricing prior to assembly.
2. Quote good for 30 days.
3. There are NO additional NRE charges or stencil, set up, or programming fees. Unlike some competitors, we have no "hidden costs." Be sure to look at the total charges when making cost comparisons.

Restrictions:

1. BGA \geq 12mil, layers \leq 14, fine pitch \leq 15 mil, passives \geq 0402 size, BGA \leq 900 balls, thru holes built \geq 10 days, SMT dimensions \geq 30 mil. If PCB dimensions are less than 2" or if the board design is not square or rectangular, the board needs to be in an array(panelized).



100% U.S. Based Manufacturing
 With Facilities Located in
 Aurora, CO, Tempe, AZ,
 & Maple Grove, MN



Part #: 301-MMFE-8	Revision: a	Date: 5/13/2014	Quote #: 3837999
University of Arizona - Physics			

STANDARD SPEC Price Matrix:

- Standard spec pricing assumes lead-free HAL plating, FR4, all holes plated thru (PTH), green mask, white silkscreen, and non-plated slots.
- DOES NOT include UL markings, 94V-0 and date codes. Minimum finished hole size .010". Hole tolerance +/- .005". Minimum Trace/Space .005".
- All files receive full CAM review and inspection to IPC-A-600, class 2 standards.
 - If your design includes countersink/counterbore or if you have controlled dielectric/stackup or impedance requirements, refer to Custom Spec matrix.
- Electrical Test is optional for 0-6 layer board. **Unit price does not include shipping and handling.** AC Terms and Conditions apply.

To Place Order, Click on UNIT PRICE below: (Qty = Pieces, Not Arrays)

Qty	Same Day	1-day	2-day	3-day	4-day	5-day	E Test(Lot)
5	N/A	N/A	N/A	N/A	N/A	N/A	\$385.00
10	N/A	N/A	N/A	N/A	N/A	N/A	\$410.00
50	N/A	N/A	N/A	N/A	N/A	N/A	\$425.00
150	N/A	N/A	N/A	N/A	N/A	N/A	\$425.00
Tooling NRE = \$0							

AS A SPEC & PRICING ALTERNATIVE THE STANDARD SPEC MATRIX ASSUMES:
 See #1 thru #5 above.
 Call Us

CUSTOM SPEC Price Matrix:

- The Custom Spec Matrix reflects pricing for the **EXACT SPECS** you **QUOTED** .
- All files receive full CAM review and inspection to IPC-A-600, Class 2 or 3 standards based on customer request and quote.
- INCLUDES UL markings and date codes. 94V-0 is added if requested at time of order entry or if noted in files. Finished hole tolerance +/- .003" (if requested). **Unit price does not include shipping and handling.** AC Terms and Conditions apply.

To Place Order, Click on UNIT PRICE below: (Qty = Pieces, Not Arrays)

Qty	Same Day	1-day	2-day	3-day	4-day	1-week	2-week	3-week	4-week
5	Call Us	Call Us	\$988.78	\$794.02	\$677.17	\$638.22	\$560.32	\$482.41	\$404.51
10	Call Us	Call Us	\$525.37	\$421.80	\$359.65	\$338.94	\$297.51	\$256.08	\$214.65
50	Call Us	Call Us	Call Us	Call Us	\$131.68	\$124.02	\$108.70	\$93.39	\$78.07
150	Call Us	Call Us	Call Us	Call Us	Call Us	Call Us	\$65.15	\$55.92	\$46.68
Tooling NRE = \$599.00 (Tooling waived when re-ordered) * Testing = \$425.00									

*** ET charges shown above do not include Hi-Pot test charges.**

Part #	301-MMFE-8	Revision #	a	Layer count	12
X Dimension	8.465	Y Dimension	2.362	Array	<input type="checkbox"/>
Tab-Rout?	<input type="checkbox"/>	Scoring?	<input type="checkbox"/>		
Material Type	FR4	Finish Thickness	0.062"	Finish Plating	Lead Free Soldr
Gold Fingers?	None	Copper Wt. (Outer)	1 oz	Copper Wt. (Inner)	1 oz
SolderMaskType	LPI	Soldermask	both sides	Soldermask Color	Green
Min. Trace/Space	0.004"				
Smallest Hole Size	.008	Silkscreen	both sides	Silkscreen Color	White
Top SMD Pads	4738	Bottom SMD Pads	4738	Min. Pitch	0.025"
Certifications & Qualifications:	IPC Class 2 (Pricing Subject To File Review)				

	<input type="checkbox"/> <u>AS9100?</u> (AS9102 FAI \$250.00 if applicable)			
Additional Attributes:	<input type="checkbox"/> <u>Controlled Dielectric?</u> <input type="checkbox"/> <u>Controlled Impedance?</u> (Pricing Subject To File Review) <input type="checkbox"/> <u>Plated Slots?</u> <input type="checkbox"/> <u>Plated Edges?</u> (Pricing Subject To File Review) <input type="checkbox"/> <u>Counterbores?</u> <input type="checkbox"/> <u>Countersinks?</u> <input type="checkbox"/> <u>Castellated Holes?</u>			
Advanced Technologies:	<input type="checkbox"/> <u>Blind/Buried Vias?</u> None	<input type="checkbox"/> <u>Microvias?</u> None	<small>(Finished hole size <= .006")</small>	
	<input type="checkbox"/> <u>Soldermask Plugged Vias?</u>	<input type="checkbox"/> <u>Via-In-Pad?</u> None		
Optional Specs:	<input type="checkbox"/> <u>Holes Plated .0015?</u> # Holes Per Board 			
Select only if known... NOT REQUIRED for ONLINE QUOTING	<input type="checkbox"/> <u>Cores < .004?</u>		<input type="text" value="0"/> # Pem Nuts	
	<input type="checkbox"/> <u>Etchback?</u>		<input type="text" value="None"/> LPI Legend	
	<input type="checkbox"/> <u>Cover Coat?</u>		<input type="checkbox"/> <u>Edge Mill?</u>	
	<input type="checkbox"/> <u>Cavity Process?</u>		<input type="checkbox"/> <u>Laser Rout?</u>	
	<input type="checkbox"/> <u>Controlled Depth Drilling?</u>		<input type="checkbox"/> <u>Unique Serialization?</u>	
	<input type="checkbox"/> <u>Back Drilling?</u>		<input type="checkbox"/> <u>Tetra Etch?</u>	
	Quantities:	<input type="text" value="5"/>	<input type="text" value="10"/>	<input type="text" value="50"/>
	ITAR <input type="radio"/> Yes <input checked="" type="radio"/> No			
Comments:	<div style="border: 1px solid black; width: 100%;"></div>			
S Non Print Mode Get Quote Quote Spec Definitions 0				

