

Component List

Bill of Materials For Project [300-S6_FMC.PrjPcb] (No PCB Document Selected)



Source Data: 300-S6_FMC.PrjPcb
 Project: 300-S6_FMC.PrjPcb
 Variant: None

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#	Quantity	Designator	Description	MFG	MFGPN	Footprint	Value	DNP	Size	Watt	Cost	Availability	Size mm	Power W	Cost	Received
1	4	B1, B2, B3, B4	Single Terminal Socket	NA	NA	MTG300_600	NA		25	0	0	NA	100	0	0	NA
2	72	C6, C7, C9, C11,	Ceramic Chip Capacitor 0201 0.22uF 6.3V 20% X5R	TY	JMK063BJ224MP-F		0.22uF		.5	0	.04	150K-AV	36	0	2.88	0
3	13	C55, C62, C74,	Ceramic Chip Capacitor 1206 100uF 6.3V 20% X5R	MUR	GRM31CR60J107ME39L		100uF		20	0	1.18	150K-AV	260	0	15.34	0
4	19	C39, C40, C46,	Ceramic Chip Capacitor 0402 4.7uF 6.3V 20% X5R	Samsung	CL05A475MQ5NRNC		4.7 uF		1.9	0	.03	930K-AV	36.1	0	0.57	0
5	1	C91	Ceramic Chip Capacitor 0402 0.22uF 6.3V 10% X5R	AXI	04026D224KAT2A		0.22uF		1.2	0	.004	2M-AV	1.2	0	0.004	0
6	4	C109	CAP CER 0.022UF 10V 10% X5R 0201	TY	LMK063BJ223KP-F		0.022uF		.5	0	.02	150K-AV	2	0	0.08	0
7	1	CBL	White miniSAS 8i 68 ctkts	3M	8F68-AAG105-1.00		68ctkt		0	0	26.66	100-DK	0	0	26.66	6
8	2	D1, D4	PolyZen Polymer Protected Zener Diode 5.6V 2.3A	TE	ZEN056V230A24LS	PolyZen	5.6V 2.3A		16	.120	.47	6K-AV	32	0.24	0.94	0
9	2	D2, D3	DFLS130L-7 in a PowerDI_123 Vfs-3	Diodes Inc	DFLS130L-7	PowerDI_123	.2Vf		7.41	0.5	.13	10K-AV	14.82	1	0.26	0
10	4	D5, D6, D15, D17	LED, Red, LTST-C190CKT	LTP	LTST-C190CKT	LED_LITE-LTST-C191TBKT-2	Red		.136	.018	.02	9K-AV	0.544	0.072	0.08	0
11	6	D11, D12	LED, GRN, LGL29K-G2J1-24-Z, 0603	OSRAM	LGL29K-G2J1-24-Z	LED_LITE-LTST-C191TBKT-2	Green		.136	.034	.21	5K-AV	0.816	0.204	1.26	0
12	1	D13	Yellow LED	LTP	LTST-C190CKT	LED_LITE-LTST-C191TBKT-2	Red		.136	.018	.02	9K-AV	0.136	0.018	0.02	0
13	1	D14	Silicon Switching Diode for High-Speed Switching	INF	BAS16	SOT-23	25W		7.25	.025	.07	8K-DK	7.25	0.025	0.07	0
14	1	D16	Blue LED Vf=2.7V 0603 SMD	LTP	LTST-C190CKT	LED_LITE-LTST-C191TBKT-2	Red		.136	.018	.02	9K-AV	0.136	0.018	0.02	0
15	1	IC1	1.7-5.5V 64K 12C Serial EEPROM	TECHNOLOGY	24AA64T-I/MC	S175X155	64K		15	0.0165	.43	151K-AV	15	0.0165	0.43	0
16	1	J1	Connector VITA 57, 400 Male contacts in 10 row abcdefghj	MOLEX	45970-4315	SAMTEC ASP-134488-01	NA		820	0	22.91	215-AV	820	0	22.91	6
17	5	J2, J3, J8, J10, J11	SD-75783-001	MOLEX	75783-0326	CON_MLX-75783-001 - composite	NA		690	0	6.10	CALL	3450	0	30.5	0
18	4	J4, J5, J6, J7	Connector HDMI 19 Male + 1 Shield	MOLEX	46765-1001	CON_MLX-0467651001	20 ckt		48.75	0	1.34	4000-AV	195	0	5.36	0
19	1	J9	2.0mm 7x2 shrouded header	MOLEX	87832-1420	CON_MLX-87332-1420-2	14cct		104.90	0	2	39K-AV	104.9	0	2	0
20	1	J12	HEADER,4PIN,MALE,.256 PITCH,STRAIGHT	Amp/Tyco	640445-4	CON_TE-640445-4	4 ckt		120	0	.45	188K-AV	120	0	0.45	0
21	8	L6, L7, L8	FB SM 220 ohm@100MHz 2000mA 0.25 0.045 ohm@DC L0805	MUR	BLM21PG221SN1D	L0805	220 ohm		5.42	.05	.04	200K-AV	43.36	0.4	0.32	0
22	2	P1, P2	Header, 2-Pin	TE	102972-2	HDR1X2	2cct		10	0	.13	10K-Mou	20	0	0.26	0
23	1	P3	Header, 20-Pin, Dual row	Gravitech	20M2-254mm	HDR2X20-2	2x20		350	0	1.68	61-Mou	350	0	1.68	0
24	0	PCB1	PCB Layout \$4990.00 / 10 Boards	U of A Physics	0300-S6_FMC_Layout		NA		0	0	499	10 days	0	0	0	0
25	0	PCB2	PCB Manufacture \$4349.80 / 10 Boards	U of A Physics	0300-S6_FMC_PCB		NA		0	0	434.98	10 days	0	0	0	0
26	0	PCB3	PCB Assemble \$3137.35 / 5 Boards	U of A Physics	0300-S6_FMC_PCB		NA		0	0	627.47	10 days	0	0	0	0
27	1	PS1	2.5V 1.3A LDO Reg DFN6	ST	ST1L05PU25	DFN6D_127P600-8N	2.5V 1.3A LDO Reg DNF6		9	.05	.96	1200-Mouser	9	0.05	0.96	0
28	2	PS2, PS3	Adjustable1.1A Single Resistor Low Dropout Regulator	LTC	LT3080EDD#TRPBF	l3080			9	.03	4.36	5K-dk	18	0.06	8.72	0
29	7	Q5, Q6, Q7	N-Channel MOSFET	Diodes Inc	DMG1012T-SOT523	SOT-23_N	20V		4	0.01	.03	450K-AV	28	0.07	0.21	0
30	25	R44, R45, R46,	RES SM 100 62mW 0.01 R0402	DALE	CRCW0402100RFKED	RESC_0402	100		1.9	0.062	.01	1M-AV	47.5	1.55	0.25	0
31	15	R17, R18, R20,	RES 0402 4K87 1/16W	DALE	CRCW04024K87FKED	RESC_0402	4K87		1.9	0.001	.01	1M-AV	28.5	0.015	0.15	0
32	2	R4, R34	RES 0402 2K4 1/16W	DALE	CRCW04022K40FKED	RESC_0402	2K4		1.9	0.001	.01	1M-AV	3.8	0.002	0.02	0
33	1	R5	RES SM 22.0 62mW 0.01 R0402	DALE	CRCW040222R0FKED	RESC_0402	22R0		1.9	0.062	.01	1M-AV	1.9	0.062	0.01	0
34	5	R27	RES SM 0R0 62mW 0.01 R0402	DALE	CRCW0402000020ED	RESC_0402	0R0		1.9	0.062	.01	1M-AV	9.5	0.31	0.05	0
35	2	R7, R8	RES 0402 1K 1/16W	DALE	CRCW04021K00FKED	RESC_0402	1K		1.9	0.001	.01	15K-AV	3.8	0.002	0.02	0
36	3	R9, R10, R12	RES 0402 100K 1/16W 1%	DALE	CRCW0402100KFKED	RESC_0402	100K		1.9	0	.01	1M-AV	5.7	0	0.03	0
37	1	R11	RES 0402 120K 1/16W 1%	DALE	CRCW0402120KFKED	RESC_0402	120K		1.9	0	.01	1M-AV	1.9	0	0.01	0
38	4	R29, R38, R56, R68	RES SM 150 62mW 0.01 R0402	DALE	CRCW0402150RFKED	RESC_0402	150		1.9	0.062	.01	1M-AV	7.6	0.248	0.04	0
39	7	R35, R36, R37, R64	RES SM 300 62mW 0.01 R0402	DALE	CRCW0402300RFKED	RESC_0402	300		1.9	0.062	.01	1M-AV	13.3	0.434	0.07	0
40	4	R39, R43, R67, R69	RES 0402 1M 1/16W 1%	DALE	CRCW04021M00FKED	RESC_0402	1M		1.9	0	.01	1M-AV	7.6	0	0.04	0
41	1	RP1	4-Resistor Array 3.2x1.6mm	Bourns	CAY16-472J4LF	RP4K4LCC-2	4.7K ohm		5.12	0.001	.14	23K-Mou	5.12	0.001	0.14	0
42	1	SW1	SW_PB_SPST_4POS_SMT	NKK	HP03154FKP2-R	SW_PB_SPST_4POS_SMT	3VA ohm		36	0	.65	1300-Mou	36	0	0.65	0
43	1	U1	FPGA-XSP6-XC6SLX100-GA676	XLX	XC6SLX100-2FG676C	FG676	XC6SLX100-2FG676C		729	6	146.36	25-AV	729	6	146.36	0
44	2	U2, U3	4-bit non-inverting translator 1.2 V to 5 V.	TI	TXB0104RUT	RUT-N12_OFN127P600-8N	TXB0104RUT		4	0	.75	1200-AV	8	0	1.5	0
45	1	U4	128Mbit SPI NOR in SO8W	Micron	N25Q128A13BSE40F	SO8W	128K		56	0.066	3.20	370-AV	56	0.066	3.2	0
46	1	X1	Osc SM LVDS 200MHz DSC1123 / Si530 LVDS OSC	Abracon/Micron	DSC1123D12-200.0000T	XTAL_Si530	200MHz		35	0.150	2.5	4 Wk Lead-Mou	35	0.15	2.5	0
Approved													6664.482	11.0135	277.02	
Notes																