



Microchip Technology Incorporated  
 2355 W. Chandler Blvd.  
 Chandler, AZ 85224-6199

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	Q: Quality Check

ASSEMBLY NUMBER: 12-00911

REV: 4

ASSEMBLY NAME: FINAL ASSY, dsPICDEM MCHV DEVELOPMENT BOARD.

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C C P			Type
						R	S	L	
1	10-00871	4	ASSY, dsPICDEM MC HV DEVELOPMENT BOARD				Y		BQ
2	MISC0013		MISC, SCREWDRIVER w/ MICROCHIP LOGO  ESPECIALLY SP				Y	Y	PART
				<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
3	DS30030	*	DOC, WARRANTY/REGISTRATION CARD				Y		DOC
4	DS30210	*	DOC, "IMPORTANT INFORMATION" MICROCHIP INFORMATION				Y		DOC
5	DS51877	*	SOFTWARE, dsPICDEM MCHV DEVELOPMENT BOARD CD				Y		DOC
6	DS51168	*	PRODUCT CASE, LARGE TOOLS BOX, 15"x12.5"x6.25"						PART
			UNISOURCE	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
7	09-00189	2	PACKAGING FILLER, HEXACOMB 1" CELL, 1" THICK, 11.75"x29"x1", (6 SCORE) Place 10-00871 in center of box, fill rest with Bubble Wrap						PART
			UNISOURCE	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
8	08-00237	3	LABEL, PRODUCT, FINAL ASSY, SERIAL NO. OPTIONAL						LBL
9	CAB0019		CABLE, USB, A TO MINI-B, 4 FT to 6 FT				Y		PART
			DELPHI 15431480-030	DIGIKEY 167-1012-ND					
			HIROSE ELECTR UX40-MB-5PA-1000-2003(01)						
				<input type="checkbox"/> RoHS Compliant	Avail:				
				<input checked="" type="checkbox"/> RoHS Compliant	Avail:				



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ASSEMBLY NUMBER: 10-00871

REV: 4

ASSEMBLY NAME: ASSY, dsPICDEM MC HV DEVELOPMENT BOARD

## Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C C P			Type
						R	S	L	
1	10-00871-D	1	ASSY DWG, dsPICDEM MC HV POWER MODULE						B
2	02-02127	3	PCB ASSY, MCHV CONTROL PFC STAGE BOARD						B
3	02-02128	1	PCB ASSY, MCHV POWER MODULE STAGE BOARD						B
4	02-02020	2	PCB ASSY, dsPIC33 MC 44P QFN TO 100P PLUG IN MODULE						B
5	09-00233	B	MECH PART, MC HV TOP ACRYLIC PLATE						PART
6	09-00234		MECH PART, MC HV BOTTOM ENCLOSURE WITH HEAT SINK						PART
7	09-00235		MECH PART, MC HV FRONT PLATE ENCLOSURE						PART
8	09-00236		MECH PART, MC HV ENCLOSURE WRAP						PART
9	07-00036	1	CABLE ASSY, dsPICDEM MC HV RIBBON CABLE						B
10	07-00037	1	CABLE ASSY, dsPICDEM MC HV BRIDGE RECTIFIER CABLE					Y	B
11	07-00038	1	CABLE ASSY, dsPICDEM MC HV PFC OUTPUT CABLE						B
12	06-00078	B	SILKSCR ART, MC HV POWER MODULE ENCLOSURE						D
13	HW0105		ULTRASTICK THERMAL COMPOUND AAVID THERMAL 31117	DIGIKEY	HS243-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:		PART
14	HW0096		HEATPAD RECTIFIER .006" K10 @BR1 BERGQUIST K10-46	DIGIKEY	BER145-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:		PART
15	HW0095		SCREW MACHINE PHIL 4-40X1/2 SS @BR1 BUILDING FAST PMSSS 440 0050 PH	DIGIKEY	H705-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:		PART



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Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C C P			Type	
						R	S	L		
16	1	HW0098	WASHER FLAT #4 STAINLESS STEEL @BR1 BUILDING FAST FWSS 004	DIGIKEY H734-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
17	6	HW0099	STANDOFF HEX M/F 4-40 .250" ALUM  KEYSTONE 8714	DIGIKEY 8714K-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
18	6	HW0042	HW, SCREW, #4-40 x 1/4" MACHINE PAN HEAD PHIL ZINC PLATED  STANDARD BOL 4-40 X1/4PHP BUILDING FAST PMS 440 0025 PH	DIGIKEY H342-ND	<input checked="" type="checkbox"/> RoHS Compliant <input checked="" type="checkbox"/> RoHS Compliant	Avail: Avail:				PART
19	11	HW0100	WASHER LOCK METRIC M 3 ZINC @J1,@D12,@Q2,@BR1 BUILDING FAST MLWZ 003	DIGIKEY H772-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
20	2	HW0101	SCREW MACHINE PHIL 4-40X5/16 SS @J1 BUILDING FAST PMSSS 440 0031 PH	DIGIKEY H704-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
21	2	HW0055	HW, NUT, #4-40 HEX SS @J1 BUILDING FAST HNSS440	DIGIKEY H724-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
22	1	HW0102	SCREW MACH PHIL 4-40X3/8 NYLON @L7 BUILDING FAST NY PMS 440 0038 PH	DIGIKEY H544-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
23	1	HW0103	NUT HEX 4-40 NYLON @L7 BUILDING FAST NY HN 440	DIGIKEY H616-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
24	12	HW0109	HW, SCREW, #6-32 x 1/4" ALLOY STEEL - GRADE 8, BLACK OXIDW USE FOR SIDE ENCLOSURE AND HEAT SINK INSTALLATION. MSC 60581030		<input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
25	1	HW0104	Heat sink/Enclosure Bottom  FISCHER ELEKT SK 49 200 SA		<input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART



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26	12	CON0372	CONN, RECPT, FAST 10-14 AWG .250						PART
			TYCO/AMP 41449	DIGIKEY A27595CT-ND		<input checked="" type="checkbox"/>			RoHS Compliant Avail:
27	1	WIRE0021	HOOK-UP WIRE 12AWG 65/30 RED (100ft spool)						PART
			ALPHA WIRE 3080 RD005	DIGIKEY A3080R-100-ND		<input checked="" type="checkbox"/>			RoHS Compliant Avail:
28	1	WIRE0022	HOOK-UP WIRE 12AWG 65/30 BLACK (100ft spool)						PART
			ALPHA WIRE 3080 BK005	DIGIKEY A3080B-100-ND		<input checked="" type="checkbox"/>			RoHS Compliant Avail:
29	1	WIRE0023	HOOK-UP WIRE 12AWG 65/30 GREEN (100ft spool)						PART
			ALPHA WIRE 3080 GR005	DIGIKEY A3080G-100-ND		<input checked="" type="checkbox"/>			RoHS Compliant Avail:
30	1	WIRE0024	HOOK-UP WIRE 12AWG 65/30 WHITE (100ft spool)						PART
			ALPHA WIRE 3080 WH005	DIGIKEY A3080W-100-ND		<input checked="" type="checkbox"/>			RoHS Compliant Avail:
31	2	CON0373	CONN, SOCKET 14PIN TIN W/KEY/STR						PART
			CW INDUSTRIES CWR-217-14-0203	DIGIKEY CKR14S-ND		<input checked="" type="checkbox"/>			RoHS Compliant Avail:
32	1	CAB0030	CABLE 14 COND 300FT FLAT GRAY						PART
			3M 3365/14 300SF	DIGIKEY MC14G-300-ND		<input checked="" type="checkbox"/>			RoHS Compliant Avail:
34	1	CON0119	CONN, SHUNT, 2x2 PIN SHORTING SHUNT @J2,@J3						PART
			SAMTEC MNT-102-BK-T			<input checked="" type="checkbox"/>			RoHS Compliant Avail:
			SAMTEC MNT-102-BK-G			<input checked="" type="checkbox"/>			RoHS Compliant Avail:
35	1	MISC0084	MISC, THERMAL PAD .020" 4X4" GAPPAD SHEET						PART
			BERGQUIST 020 GP 1500 4"X4"	DIGIKEY BER161-ND		<input checked="" type="checkbox"/>			RoHS Compliant Avail:
36	1	CON0380	CONN, SHUNT, LP W HANDLE 2 POS SN @J7						PART
			TYCO/AMP 4-881545-2	DIGIKEY A26853-ND		<input checked="" type="checkbox"/>			RoHS Compliant Avail:



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37	6	HW0106	STANDOFF M/F HEX 4-40 NYL .375" KEYSTONE 4801 DIGIKEY 4801K-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:							PART	
38	6	HW0107	SCREW MACH PHIL 4-40X1/4 NYLON BUILDING FAST NY PMS 440 0025 PH DIGIKEY H542-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:							PART	
39	16	HW0112	WASHER FLAT #6 .140X.375" NYLON INSTALL 1 WASHER ABOVE AND 1 WASHER BELOW EACH OF THE TOP ENCLOSURE SCREW MOUNT LOCATIONS. Keystone Electro 3163 DIGIKEY 3163K-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:	Keystone Electroni			DIOGIKEY			3163K-ND	PART
40	1	08-00126	6 LABEL, NEED HELP WITH ASSY/SERIAL									LBL	
41	8	HW0113	HW. SCREW, BUTTON HEAD CAP, #6-32 x 1/2" ALLOY STEEL - GRADE 8, BLACK OXID USE ONLY FOR TOP ENCLOSURE INSTALLATION. MSC Industrial Su 60581063	<input checked="" type="checkbox"/> RoHS Compliant	Avail:							PART	



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ASSEMBLY NUMBER: 09-00236

REV:

ASSEMBLY NAME: MECH PART, MC HV ENCLOSURE WRAP

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C R	C S	P L	Type
1 1	09-00236-D	C	MECH DWG, MC HV ENCLOSURE WRAP	BURNON					D



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ASSEMBLY NUMBER: 09-00235

REV:

ASSEMBLY NAME: MECH PART, MC HV FRONT PLATE ENCLOSURE

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C	C	P	Type
						R	S	L	
1 1	09-00235-D	B	MECH DWG, MC HV FRONT PLATE ENCLOSURE	BURNON					D



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ASSEMBLY NUMBER: 09-00234

REV:

ASSEMBLY NAME: MECH PART, MC HV BOTTOM ENCLOSURE WITH HEAT SINK

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C C P			Type
						R	S	L	
1 1	09-00234-D	A	MECH DWG, MC HV BOTTOM ENCLOSURE WITH HEAT SINK	BURNON					D





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ASSEMBLY NUMBER: 09-00233

REV: B

ASSEMBLY NAME: MECH PART, MC HV TOP ACRYLIC PLATE

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C C P			Type
						R	S	L	
1 1	09-00233-D	B	MECH DWG, MC HV TOP ACRYLIC PLATE	BURNON					D



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ASSEMBLY NUMBER: 07-00038

REV: 1

ASSEMBLY NAME: CABLE ASSY, dsPICDEM MC HV PFC OUTPUT CABLE

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C R	C S	P L	Type
1 1	07-00038-D	1	CABLE ASSY DRAWING, dsPICDEM MC HV PFC OUTPUT CABLE						D



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ASSEMBLY NUMBER: 07-00037

REV: 1

ASSEMBLY NAME: CABLE ASSY, dsPICDEM MC HV BRIDGE RECTIFIER CABLE

**Bill of Materials**

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C	C	P	Type
						R	S	L	
1 1	07-00037-D	1	CABLE ASSY DRAWING, dsPICDEM MC HV BRIDGE RECTIFIER CABLE						D



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ASSEMBLY NUMBER: 07-00036

REV: 1

ASSEMBLY NAME: CABLE ASSY, dsPICDEM MC HV RIBBON CABLE

**Bill of Materials**

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C R	C S	P L	Type
1 1	07-00036-D	1	CABLE ASSY DRAWING, dsPICDEM MC HV RIBBON CABLE						D



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ASSEMBLY NUMBER: 02-02128

REV: 1

ASSEMBLY NAME: PCB ASSY, MCHV POWER MODULE STAGE BOARD

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C C P			Type
						R	S	L	
1	02-02128-D	1	PCB ASSY DWG, MC HV POWER MODULE STAGE BOARD						D
2	03-02128	1	SCHEMATIC, MCHV POWER MODULE STAGE BOARD						D
3	04-02128	1	PCB FABRICATION, MCHV POWER MODULE STAGE BOARD						D
5	MIC0270		IC SMT, MCP6024-I/SL, 14L SOIC (0.150") U13 MICROCHIP MCP6024-I/SL A7BN27D3XB00 <input checked="" type="checkbox"/> RoHS Compliant Avail:					Y	PART
6	MIC0556		IC SMT, PIC18LF2450-I/ML, 28P QFN U2 MICROCHIP PIC18LF2450-I/ML DECE17M4XALF <input checked="" type="checkbox"/> RoHS Compliant Avail:					Y	PART
7	MIC0514		IC SMT, 25LC010A, 128x8 BIT SPI SERIAL EEPROM 8L SOIC U20 MICROCHIP 25LC010A-I/SN DEBU17C2XA00 <input checked="" type="checkbox"/> RoHS Compliant Avail:					Y	PART
8	MIC0509		IC SMT, PIC18F67J50-I/PT MICROCONTROLLER 64L TQFP 10x10 U21 MICROCHIP PIC18F67J50-I/PT YGAN17V2XBXF <input checked="" type="checkbox"/> RoHS Compliant Avail:					Y	PART
9	MIC0430		IC SMT, ANALOG OP-AMP, SNGL SUPPLY R-R, MCP601 SOT-23-5 U7, U8 MICROCHIP MCP601T-I/OT AB009TC7XA00 <input checked="" type="checkbox"/> RoHS Compliant Avail:					Y	PART
10	IC00428		IC SMT, ISO7231CDW, TRPL DGTL ISOL 25MBPS 16-SOIC U1, U22 TEXAS INSTRU ISO7231CDW DIGIKEY 296-22960-5-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
11	IC00429		IC SMT, NTE0303MC, CONV DC/DC 1W 3.3VIN 3.3V 1KV U10 MURATA NTE0303MC DIGIKEY 811-1673-5-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
12	CON0196		CONN, HDR, 1x25 0.050" (0.230"/0.120") @U11 SAMTEC TMS-125-01-G-S <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
13	IC00426		IC SMT, COMPARATOR R-R INPUT SOT23-5 U14 NATIONAL SEMI LMV7235M5/NOPB DIGIKEY LMV7235M5CT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:	National Semi					PART



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ASSEMBLY NUMBER: 02-02128

REV: 1

ASSEMBLY NAME: PCB ASSY, MCHV POWER MODULE STAGE BOARD

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Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C C P			Type	
						R	S	L		
14	1	IC00430	IC SMT, FACT AC/ACT CMOS LOGIC OCTAL BUF/LINE DRV U15 FAIRCHILD SEMI 74AC244MTC FAIRCHILD SEMI 74AC244MTC	MOUSER DIGIKEY	512-74AC244MTC 74AC244MTC-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
15	1	IC00431	IC SMT, VOLT REG 5V 100MA 4-SOIC U17 NXP SEMI / PHIL TDA3664/N1-T	DIGIKEY	568-3309-1-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
16	1	IC00432	IC SMT, 3.3/5V DIGTL ISOLATOR 8-SOIC U23 TEXAS INSTRU ISO721D	DIGIKEY	296-19382-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
17	1	IC00433	IC SMT, SMT, BUFF/DRVR W/OD OUT SOT-23-5 U24 TEXAS INSTRU SN74LVC1G07DBVR	DIGIKEY	296-8485-1-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
18	1	IC00434	IC SMT, DGTL ISOLATOR DUAL 8SOIC U25 TEXAS INSTRU ISO7221ADR	DIGIKEY	296-21955-1-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
19	1	IC00435	IC SMT, DGTL ISOLATOR DUAL 8SOIC U3 TEXAS INSTRU ISO7220CDR	DIGIKEY	296-21953-1-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
20	1	IC00436	IC SMT, DUAL INVERTER GATE SOT-23-6 U4 TEXAS INSTRU SN74LVC2G04DBVR	DIGIKEY	296-13261-1-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
21	1	IC00437	IC SMT, OPTOISOLATOR HIGH VCEO 2CH SMD U5 LITE-ON LTV-826S	DIGIKEY	160-1363-5-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
22	1	IC00438	IC SMT, OPTOCOUPLER TRANSISTOR 8-SMD U6 CLARE LOC110STR	DIGIKEY	CLA114CT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
23	1	IC00384	IC SMT, IC RS232 TRANSCVR PKG 16PIN 16TSSOP U9 TEXAS INSTRU MAX3232CUE	DIGIKEY	MAX3232CUE-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART



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ASSEMBLY NAME: PCB ASSY, MCHV POWER MODULE STAGE BOARD

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24	1	IC00439	IC SPM27-EC, MODULE MOTION-SPM 600V SPM27-CC U16 FAIRCHILD SEMI FSBB30CH60C	DIGIKEY	FSBB30CH60C-ND	<input checked="" type="checkbox"/>			RoHS Compliant Avail:	PART
25	1	OSC0105	CRYSTAL 20.000 MHZ SMT 18PF Y1 CITIZEN AMERIC HCM49 20.000MABJ-UT	DIGIKEY	300-8563-1-ND	<input checked="" type="checkbox"/>			RoHS Compliant Avail:	PART
26	1	OSC0106	CRYSTAL 8.000 MHZ SMT 18PF Y2 CITIZEN AMERIC HCM49 8.000MABJ-UT	DIGIKEY	300-8540-1-ND	<input checked="" type="checkbox"/>			RoHS Compliant Avail:	PART
27	1	OSC0107	CRYSTAL 12.000 MHZ 20PF CSM-7 Y3 ECS INC. ECS-120-20-5PXDND-TR	DIGIKEY	XC1298CT-ND	<input checked="" type="checkbox"/>			RoHS Compliant Avail:	PART
28	3	CAP0509	CAP ELECT 22UF 25V FK SMD C48, C54, C59 PANASONIC EEE-FK1E220R	DIGIKEY	PCE3799CT-ND	<input checked="" type="checkbox"/>			RoHS Compliant Avail:	PART
29	1	CAP0495	CAP 220UF 25V ELECT WT SMD C61 NICHICON UWT1E221MNL1GS	DIGIKEY	493-2192-1-ND	<input checked="" type="checkbox"/>			RoHS Compliant Avail:	PART
30	3	CAP0508	CAP 330UF 25V ELECT WT SMD C101, C103, C105 NICHICON UWT1E331MNL1GS	DIGIKEY	493-2193-1-ND	<input checked="" type="checkbox"/>			RoHS Compliant Avail:	PART
31	5	CAP0265	CAP SMT, 1.0uF 0603 CER 16V 10% X5R C8, C63, C77, C78, C79 AVX CORP 0603YD105KAT2A MURATA GRM188R61C105KA93D MURATA GRM185R61C105KE44D PANASONIC ECJ-1VB1C105K TAIYO YUDEN EMK107BJ105KA-T	DIGIKEY	478-1249-1-ND	<input checked="" type="checkbox"/>			RoHS Compliant Avail:	PART
				DIGIKEY	490-1536-1-ND	<input checked="" type="checkbox"/>			RoHS Compliant Avail:	
				DIGIKEY	490-3894-1-ND	<input checked="" type="checkbox"/>			RoHS Compliant Avail:	
				DIGIKEY	PCC2224CT-ND	<input checked="" type="checkbox"/>			RoHS Compliant Avail:	
				DIGIKEY	587-1251-1-ND	<input checked="" type="checkbox"/>			RoHS Compliant Avail:	



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REV: 1

ASSEMBLY NAME: PCB ASSY, MCHV POWER MODULE STAGE BOARD

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						R	S	L	
32	1	CAP0011	CAP SMT, 0.1uF 0603 CER 16V 10% X7R C81						PART
			TAIYO YUDEN EMK107B7104KA-T DIGIKEY 587-1240-2-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
			TAIYO YUDEN EMK107B7104KA-T NEWARK 86H5248	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
			PANASONIC ECJ-1VB1C104K DIGIKEY PCC1762TR-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
			NIC COMPONEN NMC0603X7R104K16TRPF	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
			CAL-CHIP GMC10X7R104K16NTLF	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
			YAGEO 06032R104K7B20D DIGIKEY 311-1088-1-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
33	2	CAP0200	CAP SMT, 27pF 0603 CER 50V 5% NP0 C82, C83						PART
			KEMET C0603C270J5GACTU DIGIKEY 399-1054-1-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
			PANASONIC ECJ-1VC1H270J DIGIKEY PCC270ACVTR-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
34	41	CAP0116	CAP SMT, 0.1uF 0805 CER 25V 10% X7R C1, C11, C12, C13, C14, C15, C16, C18, C19, C2, C22, C23, C24, C28, C3, C32, C35, C38, C39, C4, C44, C45, C49, C5, C57, C60, C62, C64, C76, C84, C85, C86, C87, C88, C89, C90, C91, C93, C94,						PART
			CAL-CHIP GMC21X7R104K50NTLF	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
			NIC COMPONEN NMC0805X7R104K50TRPF	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
			PANASONIC ECJ-2VB1E104K DIGIKEY PCC1828TR-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
			VISHAY/BC COM VJ0805Y104KXXCW1BC DIGIKEY BC1299TR-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
			YAGEO 08052R104K8B20D DIGIKEY 311-1141-2-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
35	7	CAP0036	CAP SMT, 100pF 0805 CER 50V 5% NP0 C17, C25, C26, C27, C102, C104, C106						PART
			YAGEO 0805CG101J9B200 DIGIKEY 311-1111-1-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
			PANASONIC ECJ-2VC1H101J DIGIKEY PCC101CGCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
			EPCOS B37940-K5101J60	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				
36	3	CAP0420	CAP SMT, 10uF 0805 CER 16V -20%, +80% ,Y5V C29, C66, C80						PART
			MURATA GRM21BF51C106ZE15L DIGIKEY 490-3347-2-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				





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REV: 1

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### Bill of Materials

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						R	S	L	
37	4	CAP0170	CAP SMT, 33pF 0805 CER 50V 5% NP0 C30, C31, C42, C43 NIC COMPONEN NMC0805NPO330J50TRPF			<input checked="" type="checkbox"/>			PART
			PANASONIC ECJ-2VC1H330J	DIGIKEY PCC330CGTR-ND		<input checked="" type="checkbox"/>			
			YAGEO 0805CG330J9B200	DIGIKEY 311-1105-2-ND		<input checked="" type="checkbox"/>			
38	7	CAP0505	CAP 1000PF 50V CERAMIC X7R 0805 C33, C34, C36, C37, C41, C53, C56 YAGEO CC0805KRX7R9BB102	Yageo	DKC 311-1127-1-ND	<input checked="" type="checkbox"/>			PART
				DIGIKEY 311-1127-1-ND		<input checked="" type="checkbox"/>			
39	1	CAP0431	CAP SMT, 56pF 0805 CER 50V 5% C40 PANASONIC ECJ-2VC1H560J			<input type="checkbox"/>			PART
				DIGIKEY PCC560CGCT-ND		<input type="checkbox"/>			
40	1	CAP0006	CAP SMT, 0.01uF 0805 CER 50V 10% X7R C55 XICON CC501B103K	MOUSER		<input type="checkbox"/>			PART
			YAGEO C0805KRX7R9BB103	DIGIKEY 311-1136-1-ND		<input checked="" type="checkbox"/>			
			PANASONIC ECJ-2VB1H103K	DIGIKEY PCC103BNCT-ND		<input checked="" type="checkbox"/>			
			NIC COMPONEN NMC0805XTR103K50TRPF			<input checked="" type="checkbox"/>			
			CAL-CHIP GMC21X7R333K50NTLF			<input checked="" type="checkbox"/>			
			MURATA GRM40-X7R103K050BD			<input type="checkbox"/>			
			CAL-CHIP GMC21X7R103K50NT			<input type="checkbox"/>			
			NIC COMPONEN NMC0805X7R103K50TRPF			<input checked="" type="checkbox"/>			
41	2	CAP0075	CAP SMT, 22pF 0805 CER 50V 5% NP0 C6, C7 YAGEO 0805CG220J9B200	DIGIKEY	311-1103-1-ND	<input checked="" type="checkbox"/>			PART
			XICON CC501N220J	MOUSER		<input type="checkbox"/>			
			PANASONIC ECJ-2VC1H220J	DIGIKEY PCC220CNCT-ND		<input checked="" type="checkbox"/>			
			VISHAY/BC COM VJ0805A220JXACW1BC	DIGIKEY BC1260CT-ND		<input checked="" type="checkbox"/>			



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### Bill of Materials

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						R	S	L Type
42	1	CAP0124	CAP SMT, 1.0uF 0805 CER 25V +80/-20% Y5V C65 PANASONIC ECJ-2FF1E105Z DIGIKEY PCC2230TR-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:					PART
			KEMET C0805C105Z3VAC <input checked="" type="checkbox"/> RoHS Compliant Avail:					
			KEMET C0805C105Z3VACTU DIGIKEY 399-1293-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:					
			NIC COMPONEN NMC0805Y5V105Z50TRFP <input checked="" type="checkbox"/> RoHS Compliant Avail:					
			CAL-CHIP GMC21Y5V105Z50NTLF <input checked="" type="checkbox"/> RoHS Compliant Avail:					
43	2	CAP0510	CAP .47UF 25V CERAMIC Y5V 0805 C9, C10 PANASONIC ECJ-2YF1E474Z DIGIKEY PCC1857CT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:					PART
44	4	CAP0511	CAP 4700PF 50V CERAMIC X7R 1206 C47, C50,C51, C52 YAGEO CC1206KRX7R9BB472 DIGIKEY 311-1173-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:					PART
45	1	CAP0016	CAP SMT, 0.1uF 1206 CER 50V 10% X7R C58 VISHAY/BC COM 1206B104K500BT DIGIKEY BC1326CT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:					PART
			CAL-CHIP GMC31X7R104K50NT <input type="checkbox"/> RoHS Compliant Avail:					
			MURATA GRM42-6X7R104K050BL ALLIED 711-1311 <input type="checkbox"/> RoHS Compliant Avail:					
			PANASONIC ECU-V1H104KBW DIGIKEY PCC104BTR-ND <input type="checkbox"/> RoHS Compliant Avail:					
			PANASONIC ECJ-3VB1H104K DIGIKEY PCC104BTR-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:					
			SAMSUNG CL31B104KBFANNC <input checked="" type="checkbox"/> RoHS Compliant Avail:					
			SAMSUNG CL31B104KBFNNNC <input checked="" type="checkbox"/> RoHS Compliant Avail:					
			VISHAY/BC COM VJ1206Y104KXACW1BC DIGIKEY BC1326CT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:					
			YAGEO CC1206KRX7R9BB104 DIGIKEY 311-1179-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:					
			SAMSUNG CL31B104KBFNNNC <input checked="" type="checkbox"/> RoHS Compliant Avail:					
46	2	CAP0512	CAP CER 33UF 16V X5R 20% 1812 C20, C21 TDK CORP C4532X5R1C336M DIGIKEY 445-1443-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:					PART
47	1	CAP0513	CAP CER .22UF 630V 10% X7R 2220 C46 MURATA GRM55DR72J224KW01L DIGIKEY 490-3520-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:					PART

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### Bill of Materials

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48	3	DIODE0155	DIODE FAST REC 1A 600V DO214AC D11, D12, D13 MICRO COMME ES1J-TP	DIGIKEY	ES1J-TPCT-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:			PART
49	1	DIODE0156	DIODE Zener Voltage Typ, Vz:20V D14 VISHAY/BC COM SML4747A/61	NEWARK	21H9215	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:			PART
50	6	LED0034	LED SMT, 0805 GREEN CLEAR 2x1.25mm D17, D1, D3, D18, D19, D21 KINGBRIGHT APT2012QGC-F01			<input checked="" type="checkbox"/>	RoHS Compliant	Avail:			PART
			CML INNOVATIV 7012X5	DIGIKEY	L61105TR-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:			
			KINGBRIGHT APT2012QGC			<input checked="" type="checkbox"/>	RoHS Compliant	Avail:			
			LITE-ON LTST-C170GKT	DIGIKEY	160-1179-1-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:			
			LITE-ON LTST-C170GKT	DIGIKEY	160-1179-2-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:			
51	2	DIODE0157	DIODE ZENER 500MW 3.3V SOD-80 D30,D31 FAIRCHILD SEMI FLZ3V3A	DIGIKEY	FLZ3V3ACT-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:			PART
52	7	LED0095	LED 3MM RA MATING GRN LO-I PCMT D4, D5, D6, D7, D8, D9, D10 LUMEX SSF-LXH2300LGD-LM	DIGIKEY	67-1278-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:			PART
53	1	RPOT0038	RES POT, 10K OHM 1/8W CARB HORIZ R14 CTS 296XD103B1N	DIGIKEY	CT2254-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:			PART
54	2	FUSE0029	FUSE POLYSWITCH 0.05A RESET FUSE SMD R138, R140 TYCO/AMP MICROSMD005F-2	DIGIKEY	MICROSMD005FCT	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:			PART
55	4	RSMT0625	RES SMT, 10.0K OHM 1/10W 1% 0603 R121, R124, R127, R128, ROHM MCR03EZPFX1002	DIGIKEY	RHM10.0KHCT-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:			PART
56	7	RSMT0626	RES SMT, 330 OHM 1/10W 1% 0603 R122, R125, R126, R129, R130, R132, R135 PANASONIC ERJ-3EKF3300V	DIGIKEY	P330HCT-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:			PART



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						R	S	L	
57	1	RSMT0138	RES SMT, 1.0K-OHM 1/10W 1% 0603 R123 ROHM MCR03EZPFX1001 DIGIKEY RHM1.00KHCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail: VISHAY/DALE CRCW06031K00FKEA NEWARK 52K8015 <input checked="" type="checkbox"/> RoHS Compliant Avail: PANASONIC ERJ-3EKF1001V DIGIKEY P1.00KHTR-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
58	1	RSMT0627	RES SMT, 200K OHM 1/10W 1% 0603 R131 PANASONIC ERJ-3EKF2003V DIGIKEY P200KHCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
59	2	RSMT0628	RES SMT, 4.70K-OHM 1/10W 1% 0603 R133, R134 PANASONIC ERJ-3EKF4701V DIGIKEY P4.70KHCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
60	14	RSMT0448	RES SMT, 10.0K-OHM 1/8W 1% 0805 R1, R12, , R50, R59, R60, R61, R63, R65, R67, R69, R71, R73, R142 ROHM MCR10EZHF1002 DIGIKEY RHM10.0KCCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail: YAGEO RC0805FR-0710KL DIGIKEY 311-10.0KCRCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
61	2	RSMT0517	RES SMT, 665-OHM 1/8W 1% 0805 R10, R11 PANASONIC ERJ-6ENF6650V DIGIKEY P665CTR-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
62	1	RSMT0629	RES SMT, 499 OHM 1/8W 1% 0805 R13 PANASONIC MCR10EZHF4990 DIGIKEY RHM499CCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
63	2	RSMT0630	RES SMT, 20.0K OHM 1/8W 1% 0805 R17, R20 PANASONIC ERJ-6ENF2002V DIGIKEY P20.0KCCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
64	1	RSMT0631	RES SMT, 10.0 OHM 1/8W 1% 0805 R22 PANASONIC ERJ-6ENF10R0V DIGIKEY P10.0CCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
65	3	RSMT0632	RES SMT, 47.0K OHM 1/8W 1% 0805 R26, R27, R28 PANASONIC MCR10EZHF4702 DIGIKEY RHM47.0KCCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
66	5	RSMT0633	RES SMT, 90.9K OHM 1/8W 1% 0805 R29, R30, R31, R15, R16 PANASONIC ERJ-6ENF9092V DIGIKEY P90.9KCCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART

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### Bill of Materials

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						R	S	L		
67	6	RSMT0634	RES SMT, 6.04K OHM 1/8W 1% 0805 R32, R38, R39, R48, R49, R58 PANASONIC ERJ-6ENF6041V	DIGIKEY	P6.04KCCT-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
68	6	RSMT0635	RES SMT, 40.2 OHM 1/8W 1% 0805 R33, R36, R40, R45, R51, R56, PANASONIC ERJ-6ENF40R2V	DIGIKEY	P40.2CCT-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
69	6	RSMT0636	RES SMT, 560 OHM 1/8W 1% 0805 R34, R37, R41, R46, R52, R57 ROHM MCR10EZHF5600	DIGIKEY	RHM560CCT-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
70	6	RSMT0369	RES SMT, 470-OHM 1/8W 1% 0805 R4, R9, R21, R113, R144, R146 PANASONIC ERJ6ENF4700V	ROHM	MCR10EZHF4700	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
71	1	RSMT0637	RES SMT, 1.00M OHM 1/8W 1% 0805 R44 PANASONIC ERJ-6ENF1004V	DIGIKEY	P1.00MCCT-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
72	6	RSMT0638	RES SMT, 4.70K-OHM 1/8W 1% 0805 R5, R23, R24, R25, R136, R141 ROHM MCR10EZHF4701	DIGIKEY	RHM4.70KCCT-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
73	4	RSMT0639	RES SMT, 300 OHM 1/8W 1% 0805 R53, R83, R85, R89 ROHM MCR10EZHF3000	DIGIKEY	RHM300CCT-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
74	13	RSMT0640	RES SMT, 1.00K OHM 1/8W 1% 0805 R7, R8, R35, R43, R54, R55, R62, R64, R66, R68, R70, R72, R74, R42 PANASONIC ERJ-6ENF1001V	DIGIKEY	P1.00KCCT-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
75	1	RSMT0641	RES SMT, 21.0K OHM 1/8W 1% 0805 R47 PANASONIC ERJ-6ENF2102V	DIGIKEY	P21.0KCCT-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
76	3	RSMT0642	RES SMT, 20.0 OHM 1/8W 1% 0805 R77, R97, R100 PANASONIC ERJ-6ENF20R0V	DIGIKEY	P20.0CCT-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART



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						R	S	L		
77	3	RSMT0643	RES SMT, 6.8 OHM 1/8W 1% 0805 R90, R98, R101 PANASONIC ERJ-6RQF6R8V	DIGIKEY P6.8DCT-ND		<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
78	4	RSMT0002	RES SMT, 0-OHM 0805 R6, R93, R99, R102 NIC COMPONENT NRC10Z0TRF	ROYAL OHM HMWAJ0000T50	FARNELL 772239	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
			SEI (STACKPOL RMC 1/10 0 5% TR	NEWMAN		<input type="checkbox"/>	RoHS Compliant	Avail:		
			YAGEO/PHYCO 9C08052A0R00JLHFT	DIGIKEY 311-0.0ACT-ND		<input type="checkbox"/>	RoHS Compliant	Avail:		
			SEI (STACKPOL RMCF 1/10 0 5% TR	NEWMAN		<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		
			YAGEO/PHYCO 9C08052A0R00JLPFT			<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		
			YAGEO/PHYCO RC0805JR-070RL	DIGIKEY 311-0.0ARTR-ND		<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		
			PANASONIC ERJ-6GEY0R00V	DIGIKEY P0.0ATR-ND		<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		
79	1	RSMT0644	RES SMT, 1.80K OHM 1/8W 1% 0805 R94 ROHM MCR10EZHF1801	DIGIKEY RHM1.80KCCT-ND		<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
80	2	RSMT0003	RES SMT, 0-OHM 1206 R115, R120 PANASONIC ERJ-8GEY0R00V	DIGIKEY P0.0ETR-ND		<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
			KOA SPEER RK73Z2BTTD			<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		
81	4	RSMT0645	RES SMT, 2.20K OHM 1/4W 1% 1206 R81, R91, R92, R96 ROHM MCR18EZHF2201	DIGIKEY RHM2.20KFCT-ND		<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
82	8	RSMT0646	RES SMT, 150K OHM 1/2W 5% 2010 R80, R75, R76, R78, R79, R82, R84, R88 PANASONIC ERJ-12ZYJ154U	DIGIKEY P150KWCT-ND		<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
83	3	RSMT0647	RES SMT, .01 OHM 2W 1% 4527 R86, R87, R95 VISHAY/DALE WSR2R0100FEA	DIGIKEY WSRA-.01CT-ND		<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART
84	3	CON0374	CONN, HDR, 2X6, 0.100" DUAL TIN J11, J12, J13 SAMTEC TSW-103-07-T-D	DIGIKEY SAM1034-03-ND		<input checked="" type="checkbox"/>	RoHS Compliant	Avail:		PART

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						R	S	L	
85	1	CON0375	CONN, HDR, 8POS .100" DUAL TIN J14 SAMTEC TSW-104-07-T-D	DIGIKEY SAM1034-04-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
86	1	CON0371	CONN, HDR, LOPRO STR 14POS GOLD J16 TYCO/AMP 5103308-2	DIGIKEY A33161-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
87	1	CON0088	CONN, SCREW TERMINAL, 3-POS, 0.315 PITCH, STAGGERED, J17 MOLEX 39950-0103	FARNELL 3577790	<input type="checkbox"/> RoHS Compliant	Avail:			PART
88	1	CON0383	CONN, HDR, 6 PIN STACKING HEADER LENGTH (OAL) 1.030" J18 SAMTEC DW-06-12-T-S-430		<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
89	1	CON0382	CONN, HDR, 6 PIN STACKING HEADER LENGTH (OAL) 0.730" J21 SAMTEC DW-06-08-T-S-330		<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
90	1	CON0377	CONN, HDR, 1X6 POS .100" DL R/A AU J2, J3 SAMTEC TSW-103-08-G-D-RA	DIGIKEY SAM1037-03-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
91	2	CON0169	CONN SMT, RECPT, USB MINI-B 5POS RA J6, J20 DELPHI 15430262-110 KYCON KMBX-SMT-5S-S-30TR	DIGIKEY 167-1001-2-ND MOUSER 806-KMBXSMT5SS	<input type="checkbox"/> RoHS Compliant <input checked="" type="checkbox"/> RoHS Compliant	Avail: Avail:			PART
92	1	CON0378	CONN, HDR, 1X2 POS .100 SGL R/A AU J7 SAMTEC TSW-102-08-G-S-RA	DIGIKEY SAM1039-02-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
93	4	CON0380	CONN, SHUNT, LP W HANDLE 2 POS SN @J11,@J12,@J13,@J14 TYCO/AMP 4-881545-2	DIGIKEY A26853-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
94	1	CON0286	CONN, RECPT, D-SUB, 9P, RT ANGLE J8 TYCO/AMP 5747844-4 TYCO/AMP 5747844-4	DIGIKEY A32117-ND NEWARK 24K6954	<input checked="" type="checkbox"/> RoHS Compliant <input checked="" type="checkbox"/> RoHS Compliant	Avail: Avail:			PART



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ASSEMBLY NUMBER: 02-02128

REV: 1

ASSEMBLY NAME: PCB ASSY, MCHV POWER MODULE STAGE BOARD

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C	C	P	R	S	L	Type	
95	1	CON0379	CONN, TERMINAL BLOCK 5MM 5POS PCB J9 ON SHORE ED500/5DS	DIGIKEY	ED2222-ND	<input checked="" type="checkbox"/>	RoHS	Compliant	Avail:				PART
96	2	IND0060	INDUCTOR, SMT, COIL 47UH 600MA CHOKE L1, L2 PANASONIC ELL-6SH470M	DIGIKEY	PCD1378CT-ND	<input checked="" type="checkbox"/>	RoHS	Compliant	Avail:				PART
97	3	IND0061	INDUCTOR, SMT, 4.7UH 1.0A 20% 1210 L4, L5, L6 TAIYO YUDEN BRL3225T4R7M	DIGIKEY	587-2166-1-ND	<input checked="" type="checkbox"/>	RoHS	Compliant	Avail:				PART
98	2	CON0314	CONN, HDR, TAB FAST TIN PCB .250 BP1, BP2 TYCO/AMP 63824-1	DIGIKEY	A29938CT-ND	<input checked="" type="checkbox"/>	RoHS	Compliant	Avail:				PART
99	2	SWITCH0081	SWITCH, TACT 6MM SPST RA H=5.85MM S1, Reset C&K COMPONE PTS645VH58 LFS	DIGIKEY	CKN9120-ND	<input checked="" type="checkbox"/>	RoHS	Compliant	Avail:				PART
100	2	HW0108	WASHER LOCK METRIC M 3 ZINC @U16 BUILDING FAST MLWZ 003	DIGIKEY	H772-ND	<input checked="" type="checkbox"/>	RoHS	Compliant	Avail:				PART
101	2	HW0095	SCREW MACHINE PHIL 4-40X1/2 SS @U16 BUILDING FAST PMSSS 440 0050 PH	DIGIKEY	H705-ND	<input checked="" type="checkbox"/>	RoHS	Compliant	Avail:				PART
102	2	HW0098	WASHER FLAT #4 STAINLESS STEEL @U16 BUILDING FAST FWSS 004	DIGIKEY	H734-ND	<input checked="" type="checkbox"/>	RoHS	Compliant	Avail:				PART
103	0	-SPARE-	-SPARE- LOCATION DO NOT INSTALL P16, P17, P39, J5, J10, J1, J19, J4, J15, D20, D15, D16, U12, U18, U19, R18, R19, R106-R112, R114, R116-R119, C67-C75, C92, L3										PART





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ASSEMBLY NUMBER: 02-02127

REV: 3

ASSEMBLY NAME: PCB ASSY, MCHV CONTROL PFC STAGE BOARD

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C C P			Type
						R	S	L	
1	02-02127-D	1	PCB ASSY DWG, MCHV CONTROL PFC STAGE BOARD						D
2	03-02127	1	SCHEMATIC, MCHV CONTROL PFC STAGE BOARD						D
3	04-02127	1	PCB FABRICATION, MCHV CONTROL PFC STAGE BOARD						D
5	MIC0611		IC SMT, TC4421AVOA, MOSFET DRIVER 9A INV 8SOIC U6 MICROCHIP TC4421AVOA 40AC14C2XA00 <input checked="" type="checkbox"/> RoHS Compliant Avail:					Y	PART
6	MIC0405		IC SMT, MCP6546T-I/OT OPEN-DRAIN OUTPUT COMPARATOR SOT-23 U7 MICROCHIP MCP6546T-E/OT A7BX2YC7XA00 <input checked="" type="checkbox"/> RoHS Compliant Avail: MICROCHIP MCP6546T-I/OT A7BX2TC7XA00 <input checked="" type="checkbox"/> RoHS Compliant Avail:					Y	PART
7	MIC0270		IC SMT, MCP6024-I/SL, 14L SOIC (0.150") U13 MICROCHIP MCP6024-I/SL A7BN27D3XB00 <input checked="" type="checkbox"/> RoHS Compliant Avail:					Y	PART
8	IC00423		IC SMT, OPTO COMPONENTS PHOTO-COUPLER U1,U2,U4 EVERLIGHT EL817S MOUSER 638-817S <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
9	IC00424		IC SMPS PRIMARY SWITCHER 8-DIP U3 STMicro VIPER22ADIP-E DIGIKEY 497-7694-5-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
10	IC00425		IC SMT, REG SW DC/DC 1.5A 8-SOIC U5 ON SEMI NCP3063DR2G DIGIKEY NCP3063DR2GOS <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
11	IC00426		IC SMT, COMPARATOR R-R INPUT SOT23-5 U8 NATIONAL SEMI LMV7235M5/NOPB DIGIKEY LMV7235M5CT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
12	CAP0490		CAP 4700PF 250VAC CERAMIC Y2/X1 C1, C2 PANASONIC - E ECK-ATS472MF DIGIKEY P10466-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART



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						R	S	L		
13 2	CAP0491		10uF/450V Electrolytic Cap C10, C11 United Chem-Con EKM451ELL100MK20S	NEWARK 23K3660	United Chem-Con	<input checked="" type="checkbox"/>			Avail:	PART
14 1	CAP0492		CAP 2200PF 1KV CERAMIC DISC Y5P C12 PANASONIC - E ECK-A3A222KBP	DIGIKEY P9546-ND	Panasonic-ECG	<input checked="" type="checkbox"/>			Avail:	PART
15 3	CAP0493		CAP 4.7UF 25V ELECT WX SMD C13, C41, C42 NICHICON UWX1E4R7MCL2GB	DIGIKEY 493-2106-1-ND	Nichicon	<input checked="" type="checkbox"/>			Avail:	PART
16 1	CAP0494		CAP 4700PF 50V CERM CHIP 0805 C14 PANASONIC - E ECJ-2VB1H472K	DIGIKEY PCC472BNCT-ND	Panasonic-ECG	<input checked="" type="checkbox"/>			Avail:	PART
17 3	CAP0495		CAP 220UF 25V ELECT WT SMD C15, C16, C19 NICHICON UWT1E221MNL1GS	DIGIKEY 493-2192-1-ND	Nichicon	<input checked="" type="checkbox"/>			Avail:	PART
18 14	CAP0013		CAP SMT, 0.1uF 0805 CER 50V 10% X7R C17, C20, C22, C27, C35, C40, C43, C44, C54, C48, C49, C50, C51, C53							PART
			KEMET C0805C104M5RAC			<input checked="" type="checkbox"/>			Avail:	
			TAIYO YUDEN UMK212BJ104KG-T	DIGIKEY 587-1279-2-ND		<input checked="" type="checkbox"/>			Avail:	
			YAGEO 08052R104K9B20D	DIGIKEY 311-1140-2-ND		<input checked="" type="checkbox"/>			Avail:	
			PANASONIC ECJ-2YB1H104K	DIGIKEY PCC1840TR-ND		<input checked="" type="checkbox"/>			Avail:	
			NIC COMPONEN NMC0805X7R104K50TRPF			<input checked="" type="checkbox"/>			Avail:	
			KEMET C0805C104K5RACTU	DIGIKEY 399-1170-1-ND		<input checked="" type="checkbox"/>			Avail:	
			KEMET C0805C104M5RAC			<input checked="" type="checkbox"/>			Avail:	
			CAL-CHIP GMC21X7R104K50NTLF			<input checked="" type="checkbox"/>			Avail:	
			XICON CC501B104K	MOUSER		<input type="checkbox"/>			Avail:	
			KEMET C0805C104M5RACTU	DIGIKEY 399-1169-1-ND		<input checked="" type="checkbox"/>			Avail:	



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ASSEMBLY NAME: PCB ASSY, MCHV CONTROL PFC STAGE BOARD

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C	C	P	Type
						R	S	L	
19	1	CAP0148	CAP SMT, 2200pF 0805 CER 50V 10% C18 YAGEO 08052R222K9B20D DIGIKEY 311-1129-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
			PANASONIC ECJ-2VB1H222K DIGIKEY PCC222BNCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						
			NIC COMPONEN NMC0805X7R222K50TRPF <input checked="" type="checkbox"/> RoHS Compliant Avail:						
			CAL-CHIP GMC21X7R222K50NTLF <input checked="" type="checkbox"/> RoHS Compliant Avail:						
			XICON CC501B222K MOUSER <input type="checkbox"/> RoHS Compliant Avail:						
20	1	CAP0496	CAP 10UF 16V ELECT WX SMD C21 NICHICON UWX1C100MCL2GB DIGIKEY 493-2099-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:	Nichicon	DKC 493-2099-1-ND				PART
21	2	CAP0497	CAP .001UF 630V METAL POLY C23, C29 EPCOS B32529C8102J DIGIKEY 495-1255-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:	EPCOS Inc.	DKC 495-1255-ND				PART
22	2	CAP0498	CAP 330PF 50V CERM CHIP 0805 SMD C24, C25, PANASONIC - E ECJ-2VC1H331J DIGIKEY PCC331CGCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:	Panasonic-ECG	DKC PCC331CGCT-ND				PART
23	1	CAP0499	CAP 1000UF 50V ALUM LYTIC RADIAL C26 PANASONIC - E ECA-1HM102 DIGIKEY P5186-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:	Panasonic-ECG	DKC P5186-ND				PART
24	1	CAP0500	CAP THR, 470pF N0 CER 1KV 10% Y5P C28 PANASONIC - E ECK-A3A471KBP DIGIKEY P9538-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
25	1	CAP0501	CAP FLM .33UF 275V POLYPRO MKP C3 KEMET R46KI333000N1M DIGIKEY 399-5462-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:	Kemet	DKC 399-5462-ND				PART
26	3	CAP0502	CAP 470UF 450V ELECT SMQ SNAP C30, C31, C32 United Chem-Con ESMQ451VSN471MR45S DIGIKEY 565-2797-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:	United Chem-Con	DKC 565-2797-ND				PART



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ASSEMBLY NAME: PCB ASSY, MCHV CONTROL PFC STAGE BOARD

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C C P			Type	
						R	S	L		
27	3	CAP0006	CAP SMT, 0.01uF 0805 CER 50V 10% X7R C45, C46, C47 CAL-CHIP GMC21X7R103K50NT YAGEO C0805KRX7R9BB103 DIGIKEY 311-1136-1-ND PANASONIC ECJ-2VB1H103K DIGIKEY PCC103BNCT-ND NIC COMPONEN NMC0805XTR103K50TRPF NIC COMPONEN NMC0805X7R103K50TRPF CAL-CHIP GMC21X7R333K50NTLF MURATA GRM40-X7R103K050BD XICON CC501B103K MOUSER	<input type="checkbox"/> RoHS Compliant	Avail:					PART
28	2	CAP0436	CAP SMT, 470pF 0805 CER 50V 5% C0G,NP0 C36, C38 PANASONIC ECJ-2VC1H471J DIGIKEY PCC471CGCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:					PART
29	1	CAP0503	CAP FLM .22UF 275V POLYPRO MKP C4 KEMET R46KI322000M2M DIGIKEY 399-5461-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:					PART
30	2	CAP0504	CAP 1500PF 250VAC CERAMIC Y2/X1 C5, C6 PANASONIC - E ECK-ATS152ME DIGIKEY P10462-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:					PART
31	1	CAP0431	CAP SMT, 56pF 0805 CER 50V 5% C52 PANASONIC ECJ-2VC1H560J DIGIKEY PCC560CGCT-ND	<input type="checkbox"/> RoHS Compliant	Avail:					PART
32	3	CAP0505	CAP 1000PF 50V CERAMIC X7R 0805 C7, C37, C39 YAGEO CC0805KRX7R9BB102 DIGIKEY 311-1127-1-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:					PART
33	2	CAP0506	CAP 47000PF 50V CERAMIC X7R 0805 C8, C9 KEMET C0805C473K5RACTU DIGIKEY 399-1166-1-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:					PART
34	1	DIODE0146	DIODE ULT FAST 1A 1000V DO-41 D1 MICRO COMME UF4007-TP DIGIKEY UF4007-TPMSCT-N	<input checked="" type="checkbox"/> RoHS Compliant	Avail:					PART



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ASSEMBLY NAME: PCB ASSY, MCHV CONTROL PFC STAGE BOARD

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						R	S	L	
35	1	DIODE0147	DIODE ULTRA FAST 1A 1000V SMA D11 Vishay/General S US1M-E3/61T	DIGIKEY US1M-E3/61TGICT- <input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
36	1	LED0094	LED RED CLEAR 1206 SMD D13 CML CMD11-21SRC/TR8	DIGIKEY L62011CT-ND <input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
37	2	DIODE0148	DIODE ULTRAFast 200V 1A DO-214AC D2, D10 FAIRCHILD SEMI ES1D	DIGIKEY ES1DFSC-ND <input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
38	1	DIODE0162	DIODE SMT, SCHOTTKY 1A 30V SOD-123FL D9 ON SEMI MBR130LSFT1G	DIGIKEY MBR130LSFT1GOS <input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
39	1	DIODE0149	DIODE SCHOTTKY GPP 1A 100V SMA D3 FAIRCHILD SEMI S100	DIGIKEY S100CT-ND <input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
40	1	IC00427	IC SMT, PREC SHUNT REG ADJ SOT23-3 D4 TEXAS INSTRU TL431IDBZR	Texas Instruments DIGIKEY 296-17332-1-ND <input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
41	1	DIODE0150	DIODE SCHOTTKY 1A 40V SMA D5 VISHAY/GENER SS14-E3/61T	DIGIKEY SS14-E3/61TGICT- <input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
42	1	LED0034	LED SMT, 0805 GREEN CLEAR 2x1.25mm D6 KINGBRIGHT APT2012QGC CML INNOVATIV 7012X5 KINGBRIGHT APT2012QGC-F01 LITE-ON LTST-C170GKT LITE-ON LTST-C170GKT	DIGIKEY L61105TR-ND <input checked="" type="checkbox"/> RoHS Compliant DIGIKEY 160-1179-1-ND <input checked="" type="checkbox"/> RoHS Compliant DIGIKEY 160-1179-2-ND <input checked="" type="checkbox"/> RoHS Compliant	Avail: Avail: Avail:				PART
43	1	DIODE0151	DIODE ZENER 500MW 3.3V SOD-80 D7 FAIRCHILD SEMI FLZ3V3B	DIGIKEY FLZ3V3BCT-ND <input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART



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ASSEMBLY NAME: PCB ASSY, MCHV CONTROL PFC STAGE BOARD

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						R	S	L	Type
44	1	DIODE0145	DIODE SMT, SCHOTTKY 30V 500MA SOD123 D8 FAIRCHILD SEMI MBR0530-TP DIGIKEY MBR0530TPMSCT- <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
45	1	DIODE0154	RECT BRIDGE GPP 800V 25A GBPC BR1 (Mount on Heatpad @BR1) DIODES INC GBPC2508 DIGIKEY GBPC2508DI-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
46	1	FUSE0027	Fuse Holder/ sold in packs of 100 F1 MULTI-COMP MCFC101 NEWARK 24M4433 <input checked="" type="checkbox"/> RoHS Compliant Avail:	Multi-Comp	Newark				PART
47	1	FUSE0028	FUSE CERAMIC 250V FAST 3AB 15A F1 LITTELFUSE 0314015.HXP DIGIKEY F2582-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:	Littelfuse Inc.	DKC				PART
48	1	CON0370	CONN, RECPT, AC CONNECTOR MALE FLANGE PCB J1 TYCO/AMP 6ESRM-P DIGIKEY CCM1400-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:	Tyco Electronics	DKC CCM1400-ND				PART
49	1	CON0371	CONN, HDR, LOPRO STR 14POS GOLD J16 TYCO/AMP 5103308-2 DIGIKEY A33161-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:	Tyco Electronics	DKC A33161-ND				PART
50	6	CON0314	CONN, HDR, TAB FAST TIN PCB .250 J2, J3, J4, J5, J6, J7 TYCO/AMP 63824-1 DIGIKEY A29938CT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
51	3	IND0053	INDUCTOR, POWER 100UH .57A SMD L2, L4, L5 WURTH ELECTR 74477420 DIGIKEY 732-1278-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:	Würth Electronics I					PART
52	1	IND0054	INDUCTOR, CHOKE COM MODE 2 X 1000UH .95A L3 WURTH ELECTR 744272102 DIGIKEY 732-1493-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:	Würth Electronics I					PART
53	1	IND0055	INDUCTOR, 3.3UH 200MA 1210 10% L8 EPCOS B82422A1332K100 DIGIKEY 495-1701-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:	EPCOS Inc.					PART
54	3	IND0056	INDUCTOR, 3.3UH 1.00A 20% 1210 L9, L10, L11 TDK CORP NLCV32T-3R3M-PFR DIGIKEY 445-3651-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:	TDK Corp.					PART



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### Bill of Materials

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55	1	TRA0010	TRANS SMT, NPN, 2N2222A, SOT-23 Q1 DIODES INC MMBT2222A-7-F DIGIKEY MMBT2222A-FDITR <input checked="" type="checkbox"/> RoHS Compliant Avail: DIODES INC/ZET FMMT2222ATA DIGIKEY FMMT2222ATR-ND <input type="checkbox"/> RoHS Compliant Avail: ON SEMI MMBT2222ALT1 DIGIKEY MMBT2222ALT1OS <input type="checkbox"/> RoHS Compliant Avail: DIODES INC/ZET UFMMT2222A <input checked="" type="checkbox"/> RoHS Compliant Avail: FAIRCHILD SEMI MMBT2222A_NL <input checked="" type="checkbox"/> RoHS Compliant Avail: ON SEMI MMBT2222ALT1G <input checked="" type="checkbox"/> RoHS Compliant Avail: FAIRCHILD SEMI MMBT2222A DIGIKEY MMBT2222AFSTR- <input type="checkbox"/> RoHS Compliant Avail:							PART
56	1	RES0182	RES, SUR ABSORBER 14MM 470V 4500A ZNR R1 PANASONIC ERZ-V14D471 DIGIKEY P7222-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:							PART
57	1	RES0183	RES 2.2M OHM 1/4W 5% CARBON FILM R10 YAGEO CFR-25JB-2M2 DIGIKEY 2.2MQBK-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:							PART
58	3	RSMT0603	RES 10.0 OHM 1/8W 1% 0805 SMD R11, R75,R29 PANASONIC ERJ-6ENF10R0V DIGIKEY P10.0CCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:							PART
59	2	RSMT0604	RES 3.90K OHM 1/8W 1% 0805 SMD R12, R18 ROHM MCR10EZHF3901 DIGIKEY RHM3.90KCCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:							PART
60	1	RSMT0369	RES SMT, 470-OHM 1/8W 1% 0805 R13 PANASONIC ERJ6ENF4700V <input checked="" type="checkbox"/> RoHS Compliant Avail: ROHM MCR10EZHF4700 DIGIKEY RHM470CTR-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:							PART
61	10	RSMT0605	RES 1.00K OHM 1/8W 1% 0805 SMD R14, R26, R45, R46, R56, R63, R64, R68, R70, R71 PANASONIC ERJ-6ENF1001V DIGIKEY P1.00KCCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:							PART
62	1	RSMT0530	RES SMT, 5.1K-OHM 1/8W 1% 0805 R15 ROHM MCR10EZHF5101 DIGIKEY RHM5.10KCCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:							PART



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						R	S	L	
63	1	RSMT0606	RESISTOR .015 OHM 1/4W 1% 0805 R16 PANASONIC ERJ-6BWFR015V	DIGIKEY P.015AQCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
64	1	RSMT0607	RES 2.40K OHM 1/8W 1% 0805 SMD R17 ROHM MCR10EZHF2401	DIGIKEY RHM2.40KCCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
65	1	RSMT0608	RES 511 OHM 1/8W 1% 0805 SMD R19 PANASONIC ERJ-6ENF5110V	DIGIKEY P511CCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
66	4	RSMT0609	RES 100K OHM 1/2W 1% 1210 SMD R2, R3, R4, R5 PANASONIC ERJ-14NF1003U	DIGIKEY P100KAACT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
67	1	RSMT0610	RES 0.0 OHM 1/3W 5% 1210 SMD R21 VISHAY/DALE CRCW12100000Z0EA	DIGIKEY 541-0.0VCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
68	2	RSMT0611	RES 150K OHM 1/2W 1% 1210 SMD R22, R23 PANASONIC ERJ-14NF1503U	DIGIKEY P150KAACT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
69	1	RSMT0534	RES SMT, 2.2K-OHM 1/8W 1% 0805 R61 ROHM MCR10EZHF2201	DIGIKEY RHM2.20KCCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
70	1	RSMT0617	RES 3.74K OHM 1/8W 1% 0805 SMD R24 ROHM MCR10EZHF3741	DIGIKEY RHM3.74KCCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
71	1	RSMT0003	RES SMT, 0-OHM 1206 R28 KOA SPEER RK73Z2BTDD PANASONIC ERJ-8GEY0R00V	DIGIKEY P0.0ETR-ND	<input checked="" type="checkbox"/> RoHS Compliant <input checked="" type="checkbox"/> RoHS Compliant	Avail: Avail:			PART
72	5	RSMT0448	RES SMT, 10.0K-OHM 1/8W 1% 0805 R30, R53, R54, R55, R59 YAGEO RC0805FR-0710KL ROHM MCR10EZHF1002	DIGIKEY 311-10.0KCRCT-ND DIGIKEY RHM10.0KCCT-ND	<input checked="" type="checkbox"/> RoHS Compliant <input checked="" type="checkbox"/> RoHS Compliant	Avail: Avail:			PART





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ASSEMBLY NUMBER: 02-02127

REV: 3

ASSEMBLY NAME: PCB ASSY, MCHV CONTROL PFC STAGE BOARD

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C C P			Type
						R	S	L	
73	3	RSMT0613	RES 300 OHM 1/4W 1% 1206 SMD R31, R32, R33 ROHM MCR18EZH3000	DIGIKEY RHM300FCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
74	1	RSMT0614	RES .015 OHM 3W 1% 4527 SMD R34 VISHAY/DALE WSR3R0150FEA	DIGIKEY WSRB-.015CT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
75	2	RSMT0615	RES 560 OHM 1/8W 1% 0805 SMD R38, R39 ROHM MCR10EZH5600	DIGIKEY RHM560CCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
76	4	RSMT0616	RES 39.0 OHM 1/8W 1% 0805 SMD R40, R41, R44, R52 ROHM MCR10EZH39R0	DIGIKEY RHM39.0CCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
77	2	RSMT0617	RES 3.74K OHM 1/8W 1% 0805 SMD R47, R48 ROHM MCR10EZH3741	DIGIKEY RHM3.74KCCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
78	1	RSMT0618	RES 21.0K OHM 1/8W 1% 0805 SMD R57 PANASONIC ERJ-6ENF2102V	DIGIKEY P21.0KCCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
79	1	RSMT0619	RES 12.0K OHM 1/8W 1% 0805 SMD R58 ROHM MCR10EZH1202	DIGIKEY RHM12.0KCCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
80	1	RES0184	CURRENT LIMITER INRSH 1 OHM 20% R6 EPCOS B57364S0109M000	DIGIKEY 495-1871-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
81	2	RSMT0620	RES 300K OHM 1/8W 1% 0805 SMD R60, R62 ROHM MCR10EZH3003	DIGIKEY RHM300KCCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
82	2	RSMT0621	RES 1.00M OHM 1/8W 1% 0805 SMD R65, R73 PANASONIC ERJ-6ENF1004V	DIGIKEY P1.00MCCT-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART
83	1	RES0185	RES 470K OHM METAL FILM 1W 5% R7 VISHAY/DALE PR01000104703JR500	DIGIKEY PPC470KW-1CT-N	<input checked="" type="checkbox"/> RoHS Compliant	Avail:			PART



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REV: 3

ASSEMBLY NAME: PCB ASSY, MCHV CONTROL PFC STAGE BOARD

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C	C	P	Type		
									R	S	L
84	7	RSMT0622	RES SMT, 4.70K-OHM 1/8W 1% 0805 R25, R27, R42, R43, R49, R50, R67 ROHM MCR10EZHF4701	DIGIKEY	RHM4.70KCCT-ND	<input checked="" type="checkbox"/>					PART
85	1	RSMT0623	RES 3.09K OHM 1/8W 1% 0805 SMD R8 PANASONIC ERJ-6ENF3091V	DIGIKEY	P3.09KCCT-ND	<input checked="" type="checkbox"/>					PART
86	3	RSMT0002	RES SMT, 0-OHM 0805 R9, R20, R69 YAGEO/PHYCO 9C08052A0R00JLHFT YAGEO/PHYCO RC0805JR-070RL YAGEO/PHYCO 9C08052A0R00JLPFT SEI (STACKPOL) RMCF 1/10 0 5% TR NIC COMPONEN NRC10Z0TRF SEI (STACKPOL) RMC 1/10 0 5% TR ROYAL OHM HMWAJ0000T50 PANASONIC ERJ-6GEY0R00V	DIGIKEY DIGIKEY DIGIKEY NEWMAN NEWMAN FARNELL DIGIKEY	311-0.0ACT-ND 311-0.0ARTR-ND 772239 P0.0ATR-ND	<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>					PART
87	2	RES0186	RES 15K OHM 1% 5W SILICONE WW R35, R36 VISHAY/DALE RS00515K00FE73	DIGIKEY	RSC-15KRCT-ND	<input checked="" type="checkbox"/>					PART
88	1	IND0057	INDUCTOR, 5uH 10A L6 BURNON TC2308-5ROM/E1220			<input checked="" type="checkbox"/>					PART
89	1	IND0058	INDUCTOR, 2.3mH L1 BURNON TC3715-205mH/C1236			<input checked="" type="checkbox"/>					PART
90	1	IND0059	INDUCTOR, 1mH/10A L7 BURNON TC4015-102K/E1226			<input checked="" type="checkbox"/>					PART
91	1	XFMR0002	SE21338 TX1 BURNON SE21338			<input type="checkbox"/>					PART



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ASSEMBLY NUMBER: 02-02127

REV: 3

ASSEMBLY NAME: PCB ASSY, MCHV CONTROL PFC STAGE BOARD

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C C P			Type	
						R	S	L		
92	1	DIODE0153	DIODE DUAL 600V 30A TO-247 D12 FAIRCHILD SEMI ISL9K3060G3	DIGIKEY ISL9K3060G3-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
93	1	TRA0079	TRANS IGBT N-CH SMPS 600V 60A (TO-247) Q2 FAIRCHILD SEMI HGTG30N60A4D	DIGIKEY HGTG30N60A4D-N	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
94	2	HW0094	HEATPAD TO-247 .009" SP900 @D12, @Q2 BERGQUIST SP900S-104	DIGIKEY BER178-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
95	2	HW0095	SCREW MACHINE PHIL 4-40X1/2 SS @D12, @Q2 BUILDING FAST PMSSS 440 0050 PH	DIGIKEY H705-ND	<input checked="" type="checkbox"/> RoHS Compliant	Avail:				PART
96	0	-SPARE-	-SPARE- LOCATION DO NOT INSTALL TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8. TP9, TP10, TP11							PART
97	0	-SPARE-	-SPARE- LOCATION DO NOT INSTALL R51, R66							PART



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ASSEMBLY NUMBER: 02-02020

REV: 2

ASSEMBLY NAME: PCB ASSY, dsPIC33 MC 44P QFN TO 100P PLUG IN MODULE

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C	C	P	Type
						R	S	L	
1	02-02020-D	1	PCB ASSY DWG, dsPIC33 MC 44P QFN TO 100P PLUG IN MODULE						D
2	03-02020	1	SCHEMATIC, dsPIC33 MC 44P QFN TO 100P PLUG IN MODULE						D
3	04-02020	1	PCB FABRICATION, dsPIC33 MC 44P QFN TO 100P PLUG IN MODULE						D
4	08-00308	1	LABEL, PRODUCT NUMBER, ASSEMBLY NUMBER W/ REVISION (SMALL)						LBL
5	MIC0513		IC SMT, dsPIC33FJ32MC204-I/ML, 44L QFN U1 MICROCHIP dsPIC33FJ32MC204-I/ML YGAU17T3XCKA <input checked="" type="checkbox"/> RoHS Compliant Avail:			Y			PART
6	3	CAP0011	CAP SMT, 0.1uF 0603 CER 16V 10% X7R C2-C4 YAGEO 06032R104K7B20D DIGIKEY 311-1088-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail: CAL-CHIP GMC10X7R104K16NTLF <input checked="" type="checkbox"/> RoHS Compliant Avail: NIC COMPONEN NMC0603X7R104K16TRPF <input checked="" type="checkbox"/> RoHS Compliant Avail: PANASONIC ECJ-1VB1C104K DIGIKEY PCC1762TR-ND <input checked="" type="checkbox"/> RoHS Compliant Avail: TAIYO YUDEN EMK107B7104KA-T DIGIKEY 587-1240-2-ND <input checked="" type="checkbox"/> RoHS Compliant Avail: TAIYO YUDEN EMK107B7104KA-T NEWARK 86H5248 <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
7	1	CAP0265	CAP SMT, 1.0uF 0603 CER 16V 10% X5R C1 MURATA GRM188R61C105KA93D DIGIKEY 490-1536-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail: MURATA GRM185R61C105KE44D DIGIKEY 490-3894-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail: PANASONIC ECJ-1VB1C105K DIGIKEY PCC2224CT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail: TAIYO YUDEN EMK107BJ105KA-T DIGIKEY 587-1251-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail: AVX CORP 0603YD105KAT2A DIGIKEY 478-1249-1-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
8	4	CON0181	CONN, RECPT, 1x25 0.050" (1.27mm) HIGH PROFILE, STRAIGHT, GOLD J1 SAMTEC SMS-125-01-G-S <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART
9	31	MISC0048	MISC SMT, TEST POINT (MINI) Pin1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 19, 20, 21, 22, 23, 24, 25, 26, 27, 32, 33, 34, 35, 36, 37, 38, 43, 44 KEYSTONE 5015 DIGIKEY 5015KCT-ND <input checked="" type="checkbox"/> RoHS Compliant Avail:						PART

\* In Rev Field: Part Rev is controlled in the Specification Index



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ASSEMBLY NUMBER: 02-02020

REV: 2

ASSEMBLY NAME: PCB ASSY, dsPIC33 MC 44P QFN TO 100P PLUG IN MODULE

### Bill of Materials

Qty	Part Number	Rev	Description	Manufacturer	Vendor / Part No	C C P			Type
						R	S	L	
10 29	RSMT0001		RES SMT, 0-OHM 0603 R1-R17,R19-R25,R28-R32 NIC COMPONENT NRC06Z0TRF						PART
			PANASONIC ERJ-3GSY0R00V	DIGIKEY	P0.0GTR-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:	
			PANASONIC ERJ-3GEY0R00V	DIGIKEY	P0.0GTR-ND	<input checked="" type="checkbox"/>	RoHS Compliant	Avail:	
			SEI (STACKPOL RMCF 1/16 0 5% R			<input checked="" type="checkbox"/>	RoHS Compliant	Avail:	
11 1	-SPARE-		-SPARE- LOCATION DO NOT INSTALL DO NOT POPULATE R18, R26, R27						PART