





Designator	Comment	Description	Manufacturer	Manufacturer Part Number	Footprint	Quantity
B1	B0505S 2W	Isolated Module DC DC Converter 1 Output 5V 400mA 4.5V - 5.5V Input			MORNSUN_B0505S	1
C1, C2, C4, C5, C7, C11, C23, C27, C29, C30	0.1uF	Cap SMT Cer .1UF 50V 10% 0603 4K/TR	Cal-Chip Electronics	GMC10X7R104K50NT	C0603	10
C3, C10	4.7uF	4.7uF 16V Ceramic Capacitor X7R 0805 (2012 Metric) 0.079" L x 0.049" W (2.00mm x 1.25mm)	Taiyo Yuden	EMK212B7475K G-T	C0805	2
C6, C8, C9, C12, C13, C14, C17, C18, C19, C20, C21, C22	C18nF-0805	0.018uF ±10% 50V Ceramic Capacitor X7R 0805 (2012 Metric)	Murata	GRM21B5C1H183JA01L	C0805	12
C15, C16	33pF	33pF ±1% 50V Ceramic Capacitor COG	Yageo	CC0805FRNP09BN330	C0805	2
C24	1uF	0.10uF 50V Ceramic Capacitor X7R 0805 (2012 Metric) 0.079" L x 0.049" W (2.00mm x 1.25mm)	Taiyo Yuden	TMK212B7105K G-T	C0805	1
C25, C26, C28	10uF	10uF 6.3V Ceramic Capacitor X5R 0805 (2012 Metric) 0.079" L x 0.049" W (2.00mm x 1.25mm)	Taiyo Yuden	JMK212ABJ106K GHT	C0805	3
F1, F2, F3, F4, F5, F6	BLM21AG471SN1D	BLM18AG221SN1D	Murata Electronics North America	BLM21AG471SN1D	L0805	6
F7	Ferrite bead 0805	FERRITE BEAD 15 OHM 0805 1LN	Samsung Electro-Mechanics	CIB21P150NE	L0805	1
JP1	HEADER 25X2				HDR2X25	1
P1, P2, P3, P5, P6, P7	691216510002	TERM BLOCK 2POS HORIZ 5.08MM T/H	Würth Electronics Inc.	691216510002	Medium - Header 2	6
P4	LTV-816	OPTOISOLATR 5KV TRANSISTOR 4-SMD	Lite-On Inc.	LTV-816S-TA1	PC817x1SMD	1
P8, P9	Header 8X2	Header, 8-Pin, 2mm, Female Dual row		China	HDR2X8 -2mm	2
R1, R2, R3, R4, R5, R14, R15, R49, R50, R51, R52	10k	RES SMD 10K OHM 5% 1/8W 0805	Yageo	RC0805JR-0710KL	R0805	11
R6, R7, R8, R9, R10, R11, R12, R16, R17, R18, R19, R20, R21, R22, R24, R25, R26, R27, R28, R29, R30	240k	240 kOhms ±1% 0.125W, 1/8W Chip Resistor 0805	Yageo	RT0805FRD07240KL	R0805	21
R13, R23, R31, R33, R34, R35, R36, R43, R44, R45, R46, R47, R48	R1k 0805 1% 25ppm	1 kOhms ±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Moisture Resistant Thin Film	Yageo	RT0805FRD071KL	R0805	13
R32	NC		Yageo	RT0805FRD071KL	R0805	1
R37, R38, R39, R40, R41, R42	10R	10 Ohms ±0.25% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Thin Film	Yageo	RT0805CRD0710RL	R0805	6
TP1, TP2, TP3, TP4, TP5, TP6	TP60/90				TP_60/90	6
U1	ISO7341CDW	General Purpose Digital Isolator 3000Vrms 4 Channel 25Mbps 25kV/μs CMT1 16-SOIC (0.295", 7.50mm Width)	Texas Instruments	ISO7341CDW	soic16	1
U2	ATM90E32AS-AU-Y	3 Phase Meter IC 48-TQFP	Microchip Technology	ATM90E32AS-AU-R	LOFP48_M	1
U3, U4, U5	Current Sensor	ZMCT103C 5A/5mA			CT_5A/5mA	3
U6	Fram	FRAM 16Kbit 1MHZ 8SOIC	Cypress Semiconductor Corp	FM24CL04B-G	SOIC8N_N	1
U7	REG113NA-3.3/3K	Linear Voltage Regulator IC Positive Fixed Output 3.3V 400mA SOT-23-5	Texas Instruments	REG113NA-3.3/3K	SOT23-5_L	1
Y1	9B-16.384MEEJ-B	16.384MHz ±10ppm Crystal 18pF 30 Ohms HC49/US	TXC CORPORATION	9B-16.384MEEJ-B	Cry_Hold	1