

Part	Value	Device	Package	Description	MF	MPN	REM
3.3V	TPB1,27	TPB1,27	B1,27	Test pad			DNI
5V	TPB1,27	TPB1,27	B1,27	Test pad			DNI
12..24V	TPB1,27	TPB1,27	B1,27	Test pad			DNI
12V	TPB1,27	TPB1,27	B1,27	Test pad			DNI
ADT0	22-05-7108-10	22-05-7108-10	7395-10	CONNECTOR	MOLEX	1902326	
B1	3000	3000	3000		KEYSTONE	3000	
BAT	53261-03	53261-03	53261-03	CONNECTOR	MOLEX	53261-0371	
C1	4.7uF	C-EUC0805	C0805	CAPACITOR, European symbol	MULTICOMP	MC0805X475K6R3CT	
C2	0.1uF	C-EUC0402	C0402	CAPACITOR, European symbol	MULTICOMP	MC0402B104K160CT	
C3	4.7uF	C-EUC0402	C0402	CAPACITOR, European symbol	MULTICOMP	MC0603X475K6R3CT	DNI
C4	0.1uF	C-EUC0402	C0402	CAPACITOR, European symbol	MULTICOMP	MC0402B104K160CT	
C5	0.1uF	C-EUC0402	C0402	CAPACITOR, European symbol	MULTICOMP	MC0402B104K160CT	
C6	0.1uF	C-EUC0402	C0402	CAPACITOR, European symbol	MULTICOMP	MC0402B104K160CT	
C7	0.1uF	C-EUC0402	C0402	CAPACITOR, European symbol	MULTICOMP	MC0402B104K160CT	
C8	100UF	EEE-FTH101XAP-CASE-D8	CAPAE660X800N	Aluminum Electrolytic Capacitors,Surface Mount Type	PANASONIC ELECTRONIC COMPONENTS	EEEFTH101XAP	
C10	0.1uF	C-EUC0402	C0402	CAPACITOR, European symbol	MULTICOMP	MC0402B104K160CT	
C13	0.1uF	C-EUC0402	C0402	CAPACITOR, European symbol	MULTICOMP	MC0402B104K160CT	
C17	0.1uF	C-EUC0402	C0402	CAPACITOR, European symbol	MULTICOMP	MC0402B104K160CT	
C26	4.7uF	C-EUC0402	C0402	CAPACITOR, European symbol	MULTICOMP	MC0603X475K6R3CT	DNI
C46	4.7uF	C-EUC0402	C0402	CAPACITOR, European symbol	MULTICOMP	MC0603X475K6R3CT	DNI
C48	150UF	EEE-FTV151XAP-CASE-D8	CAPAE660X800N	Aluminum Electrolytic Capacitors,Surface Mount Type	PANASONIC ELECTRONIC COMPONENTS	EEEFTV151XAP	
C49	68UF	EEE-FT1A680AR-CASE-B	CAPAE430X610N	Aluminum Electrolytic Capacitors,Surface Mount Type	PANASONIC ELECTRONIC COMPONENTS	EEEF1A680AR	
C51	10nF	U0805R103KCT	CAPC2013X90N	CAPACITOR, 0805	MULTICOMP	MCU0805R103KCT	
C52	150UF	EEE-FTV151XAP-CASE-D8	CAPAE660X800N	Aluminum Electrolytic Capacitors,Surface Mount Type	PANASONIC ELECTRONIC COMPONENTS	EEEFTV151XAP	
C53	47UF	EEE-FT1E470AR-CASE-C	CAPAE530X610N	Aluminum Electrolytic Capacitors,Surface Mount Type	PANASONIC ELECTRONIC COMPONENTS	EEEF1E470AR	
C55	10nF	U0805R103KCT	CAPC2013X90N	CAPACITOR, 0805	MULTICOMP	MCU0805R103KCT	
D1	3A, 60V	MBRS360BT3G	SMB		ON SEMICONDUCTOR	MBRS360BT3G	
D2	3A, 60V	MBRS360BT3G	SMB		ON SEMICONDUCTOR	MBRS360BT3G	
D3	3A, 60V	MBRS360BT3G	SMB		ON SEMICONDUCTOR	MBRS360BT3G	
D4	3A, 60V	MBRS360BT3G	SMB		ON SEMICONDUCTOR	MBRS360BT3G	
DC1	NTE1205MC	NTE1205MC	NTE		MURATA POWER SOLUTIONS	NTE1205MC	
EXP0	87832-26	87832-26	87832-26	Milli-Grid Header	MOLEX	87832-2620	
FU0	FUSE3557	FUSE3557	3557	Fuse	KEYSTONE	3557	
H1	MOUNT-HOLE3.3	MOUNT-HOLE3.3	3,3	MOUNTING HOLE with drill center marker			
H2	MOUNT-HOLE3.3	MOUNT-HOLE3.3	3,3	MOUNTING HOLE with drill center marker			
H3	MOUNT-HOLE3.3	MOUNT-HOLE3.3	3,3	MOUNTING HOLE with drill center marker			
H4	MOUNT-HOLE3.3	MOUNT-HOLE3.3	3,3	MOUNTING HOLE with drill center marker			
ISW	22-05-7108-10	22-05-7108-10	7395-10	CONNECTOR	MOLEX	1902326	
JP1	FIDUCIAL1X2	FIDUCIAL1X2	FIDUCIAL-1X2	Fiducial Alignment Points			DNI
JP2	FIDUCIAL1X2	FIDUCIAL1X2	FIDUCIAL-1X2	Fiducial Alignment Points			DNI
L1	47uH	B82462G4473M000	B82462G4		EPCOS	B82462G4473M	
L2	68uH	B82462G4683M000	B82462G4		EPCOS	B82462G4683M	
L3	1uH	B82462G4102M000	B82462G4		EPCOS	B82462G4102M	
LED1	red	LEDCHIP-LED0603	CHIP-LED0603	LED	MULTICOMP	OVS-0608	
LED2	blue	LEDCHIP-LED0603	CHIP-LED0603	LED	MULTICOMP	OVS-0603	
LED3	blue	LEDCHIP-LED0603	CHIP-LED0603	LED	MULTICOMP	OVS-0603	
LED4	blue	LEDCHIP-LED0603	CHIP-LED0603	LED	MULTICOMP	OVS-0603	
LED5	blue	LEDCHIP-LED0603	CHIP-LED0603	LED	MULTICOMP	OVS-0603	
LED6	blue	LEDCHIP-LED0603	CHIP-LED0603	LED	MULTICOMP	OVS-0603	
LED7	blue	LEDCHIP-LED0603	CHIP-LED0603	LED	MULTICOMP	OVS-0603	

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LED8	blue	LEDCHIP-LED0603	CHIP-LED0603	LED	MULTICOMP	OVS-0603	
LED9	blue	LEDCHIP-LED0603	CHIP-LED0603	LED	MULTICOMP	OVS-0603	
OK1	TLP283-4	TLP283-4	MINI-FLAT-16	TOSHIBA PHOTOCOUPLER GaAs IRED & PHOTO-TRANSISTOR	VISHAY	TCMT4100	
OK2	HCPL0601	HCPL0601	SOIC08	HEWLETT PACKARD OPTO COUPLER	AVAGO TECHNOLOGIES	HCPL-0601-000E	
P8	F-2X23-	F-2X23-	DIL-100-2X23		SAMTEC	ESQ-123-14-T-D	
P9	F-2X23-	F-2X23-	DIL-100-2X23		SAMTEC	ESQ-123-14-T-D	
P10	F-2X2-	F-2X2-	DIL-100-2X2		SAMTEC	TSW-104-14-T-D	
POW	MSTBA3	MSTBA3	MSTBA3	PHOENIX	PHOENIX CONTACT	1757255	
Q1	32.768kHz, 12.5pF	ABS07-32.768KHZ	ABS07		ABRACON	ABS07-32.768KHZ-T	
Q2	16MHz, 22pF	AWSCR-16MHZ-MTD-C22PF	AWSCR-MT		ABRACON	AWSCR-16.00MTD-T	
Q4		IRLML6344TRPBF	SOT95P240X112-3N	Power MOSFET	INTERNATIONAL RECTIFIER	IRLML6344TRPBF	
Q5		IRLML6344TRPBF	SOT95P240X112-3N	Power MOSFET	INTERNATIONAL RECTIFIER	IRLML6344TRPBF	
R1	R100	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1000FTL	
R2	R100	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1000FTL	
R3	R100	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1000FTL	
R4	R100	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1000FTL	
R5	1k	R-EUR0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1001FTL	
R6	1k	R-EUR0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1001FTL	
R7	1k	R-EUR0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1001FTL	
R8	1k	R-EUR0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1001FTL	
R9	1.5K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1501FTL	
R10	1.5K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1501FTL	
R11	4.7K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4701FTL	
R12	1.5K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1501FTL	
R13	4K7, 1%	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4701FTL	
R14	1.5K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1501FTL	
R15	4K7, 1%	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4701FTL	
R16	10K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1002FTL	
R17	1.5K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1501FTL	
R18	4K7, 1%	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4701FTL	
R19	4.7K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4701FTL	
R20	4.7K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4701FTL	
R21	470	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4700FTL	
R22	4.7K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4701FTL	
R25	4.7K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4701FTL	
R26	4.7K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4701FTL	
R27	4.7K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4701FTL	
R28	4.7K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4701FTL	
R29	4.7K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4701FTL	
R30	4.7K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4701FTL	
R31	3K3	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X3301FTL	
R32	120, DNI	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1200FTL	DNI
R38	10K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1002FTL	
R40	10K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1002FTL	
R45	4.7K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X4701FTL	
R50	10K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1002FTL	
R51	10K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1002FTL	
R52	10K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1002FTL	
R53	10K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1002FTL	
R54	10K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1002FTL	

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R55	10K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1002FTL	
R56	10K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1002FTL	
R57	10K	R-EU_R0402	R0402	RESISTOR, European symbol	MULTICOMP	MCMR04X1002FTL	
RL1	G6L5VDC	G6L5VDC	G6L-1F		OMRON ELECTRONIC COMPONENTS	G6L1F5DC	
TH0	22-05-7038-03	22-05-7038-03	7395-03	CONNECTOR	MOLEX	1876759	
TH1	22-05-7038-03	22-05-7038-03	7395-03	CONNECTOR	MOLEX	1876759	
TH2	22-05-7038-03	22-05-7038-03	7395-03	CONNECTOR	MOLEX	1876759	
U\$1	EXMACHINA-LOGO	EXMACHINA-LOGO	EXM-LOGO				
U\$2	CC-BY-SA	CC-BY-SA	CC-BY-SA				
U1	LM2675M-5.0	LM2675M-5.0	SOIC127P620X175-8N	Step-Down Voltage Regulator	TEXAS INSTRUMENTS	LM2675M-5.0	
U2	LM2675M-12	LM2675M-12	SOIC127P600X175-8N	IC REG SIMPLE SWITCHER	TEXAS INSTRUMENTS	LM2675M-12/NOPB	
U3	24AA256-I/SN	24AA256-I/SN	SOIC127P600X175-8N	EEPROM	MICROCHIP	24AA256-I/SN	
U4	DS1307ZN+	DS1307ZN+	SOIC127P600X175-8N	64 x 8, Serial, I2C Real-Time Clock	MAXIM INTEGRATED PRODUCTS	DS1307ZN+	
U5	CD4050BD	CD4050BD	SOIC127P600X175-16N	CMOS Hex Buffer/Converters	TEXAS INSTRUMENTS	CD4050BD	
U6	CD4050BD	CD4050BD	SOIC127P600X175-16N	CMOS Hex Buffer/Converters	TEXAS INSTRUMENTS	CD4050BD	
U7	PCA9685PW	PCA9685PW	SOP65P640X110-28N	16-channel, 12-bit PWM Fm+ I2C-bus LED controller	NXP	PCA9685PW	
U8	MCP23008-E/SO	MCP23008-E/SO	SOIC127P1030X265-18N	8BIT EXPANDER, I/O, I2C I/F	MICROCHIP	MCP23008-E/SO	
U9	SN65HVD08D	SN65HVD08D	SOIC127P600X175-8N	WIDE SUPPLY RANGE RS-485 TRANSCEIVER	TEXAS INSTRUMENTS	SN65HVD08D	
U10	MCP2515-I/SO	MCP2515-I/SO	SOIC127P1034X264-18N	CAN Controller	MICROCHIP	MCP2515-I/SO	
U11	MCP2551-I/SN	MCP2551-I/SN	SOIC127P600X175-8N	High-Speed CAN Transceiver	MICROCHIP	MCP2551-I/SN	