



























Comment	Description	Designator	Footprint	LibRef	Quantity
Test Point	Fiducial Alignment Points Various fiducial points for machine vision alignment.	AVDD, GND, VCOM, VGH, VGL	MICRO-FIDUCIAL	Test Point	5
22uF	Capacitor	C1, C6	2012[0805]	Cap	2
0.1uF	Capacitor	C2, C5, C8, C9, C12, C15, C16, C17	1608[0603]	Cap	8
1uF	Capacitor	C3, C4	1608[0603]	Cap	2
10uF	Capacitor	C7, C10, C11	2012[0805]	Cap	3
4.7uF	Capacitor	C13, C14	1608[0603]	Cap	2
40V 1A 600mV @ 1A 1N5819W SOD-123F Schottky Barrier Diodes (SBD) RoHS		D1, D2, D3, D4	SOD123FL	1N5819W	4
RB056LAM-40TR	Default Diode	D5	SOD128	Diode	1
LED	Typical INFRARED GaAs LED	D6	LED_0603_RED	LED	1
LED	Typical INFRARED GaAs LED	D7, D8	LED_0603_YELLOW	LED	2
DSMIC04G-BK-TUBE	Dip Switch SPST SMT Type, 4 Position, Pitch 2.54mm.	DIP1	DSMIC04G-BK	DIP SWITCH 4 POS	1
SMD0805-100	Ferrite Beads & Chip for EMI	F1	2012[0805]	MPZ2012S101AT	1
BLM18PG300SN1D	MMZ1608B301C	FB1	1608[0603]	MMZ1608B301C	1
JUSHUO AFC07-S50ECC-00	WR-FPC 0.50mm SMT ZIF Horizontal Top Contact	FPC1	68715014022	WE-ZIF Connector WR-FPC 68715014022	1
JUSHUO AFC07-S06FCA-00	WR-FPC 0.50mm SMT ZIF Horizontal Bottom Contact	FPC2	68710614522	WE-ZIF Connector WR-FPC 68710614522	1
NUT	Hold	H1, H2, H3, H4	Nut-M3-5 SMT	Nut	4
USB 3.1 C	USB 3.1 Type C	J1, J2	USB-C-16P	USB-3.1-Type-C	2
08x2IDC-I9	IDC Header 16 Pins Male	JP1	2X08	PINHD-2X08IDC	1
LOH5BPB100MT0L	Inductor	L1, L2	INDUCTOR_5X5MM_NR5040_NOTHERMAL_S	Inductor	2
ESP32-S3-WROOM-2	ESP32-S3-WROOM-2	M1	ESP32-S3-WROOM-1	ESP32-S3-WROOM-2	1
MMBT2222ALT1G	Transistor NPN 40V/0.6A, General purpose	O1, Q2	SOT23N-NPN	MMBT2222ALT1G	2
10K	Resistor	R1, R2, R3, R4, R5, R6, R7, R12, R13, R19, R22, R23, R24, R25, R28, R29	1608[0603]	Res	16
820K	Resistor	R10	1608[0603]	Res	1
30K	Resistor	R11	1608[0603]	Res	1
150	Resistor	R14	1608[0603]	Res	1
1.2K	Resistor	R15	1608[0603]	Res	1
47K	Resistor	R16	1608[0603]	Res	1
1R	Resistor	R17	2012[0805]	Res	1
NC	Resistor	R18	2012[0805]	Res	1
22	Resistor	R20, R21, R32, R33	1608[0603]	Res	4
5.1K	Resistor	R26, R27, R30, R31	1608[0603]	Res	4
22.1K	Resistor	R34	1608[0603]	Res	1
47.5K	Resistor	R35	1608[0603]	Res	1
4.7K	Resistor	R36	1608[0603]	Res	1
1K	Resistor	R37, R38, R39	1608[0603]	Res	3
TS-3025-A-A-B	SMD-BUTTON-WITHOUT-BOSS-(2P-3X2.5MM)	S1, S2	SW2-SMD-3.0X2.5X1.2+0.4MM	Tact SW	2
MT3608	Step-Up Positive Adjustable 11.2MHz SOT-23-6 DC-DC Converters RoHS	U1	SOT23-6	MT3608	1
MT9284BS6	SOT-23-6 LED Drivers RoHS	U2	SOT23-6	MT9284	1
CP2102N	SINGLE-CHIP USB TO UART BRIDGE	U3	QFN24_4X4	CP2102N	1
TLV1117LV33	1000mA Low-Dropout Linear Regulator, 4-pin SOT-223	U4	MP04A_N	LD1117AS33TR	1
12.0V	Zener Diode	ZD1	SOD80	Zener	1
6.25V	Zener Diode	ZD2	SOD80	Zener	1