









Comment	Description 2.2 uF±10%16V	Designator	Footprint	LibRef	Quantity
OL10A225KO8NNNC	Ceramic Capacitor X5R0603 (1608	C1, C2, C3, C4	0603-CAP	CAP-0603-16V	
600F180FT250XT	Metric) 18 pF±1%250V Ceramic Capacitor COG, NP0 0805 (2012	C5, C6	CAP-0805	CAP-0805-250V-18pF	:
KGW21NR71E104KT	Metric) 0.1 µF±10%25V Ceramic Capacitor X7R0805 (2012 Metric)	C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19	CAP-0805	CAP-0805-25V-100n	1:
KGM21NR71E104KT	0.1 µF±10%25V Ceramic Capacitor X7R0805 (2012 Metric)	C20, C22	0805-RES	CAP-0805-25V-100n	:
00603C105ZBVAC7867	1 µF-20%, +80% 10V Ceramic Capacitor Y5V (F) 0603 (1608 Metric)	C21	0603-CAP	CAP-0603-10V-1uF	
965080640004	4.7 µF50 V Aluminum Bectrolytic Capacitors Radial, Can - SMD 2000 Hrs @ 106°C	C23	865080640004	CAP-RADIALSMD- 4.7uF(BIAS)	
PESD6V0X1UB,135	8V (Typ) Clamp 1.5A (8/20µs) Ipp Tvs Diode Surface Mount SOD-523	D1	PESD5V0X1UB,135	TVS-8V-5.8V	
USBL06-2906	17V Gamp 5A (8/20µs) lpp Tvs Diode Surface Mount SOT-23-6	D2	SOT95P280X145-6N	TVS-6V-17V	
LTST-C190KGKT	Green 571nm LED Indication - Discrete 2V 0603 (1608 Metric) ARM/ROptex/RM7	D3, D4	FP-LTST-C190KGKT- MFG	LED-0603-Green_	
STM32H723VGT6	STM32H7 Microcontroller IC32- Bit Single-Core 550MHz 1MB (1Mx8) FLASH100-LOFP (14x14)	ICI	QFP50P1600X1600X16 0-100N	STMH723VGT6	
BME280	Pressure Sensor 4.35PSI ~ 15.95PSI (30kPa ~ 110kPa) Absolute 16b 8-SMD	102	BME280	BME280	
ICM-20649	Accelerometer, Gyroscope, Temperature, 6 Axis Sensor I2C, SPI Output	103	24-QFN	IMU-IOM20649-SPI	
W25Q32JVSSIQ	FLASH - NORMemory IC32Mbit SPI - Quad I/O133 MHz 8-SOIC	IC4	F-SOIC127P790X216- 8N	Rashchip-32MBIT- 3V3	
OP2102-GMR	USB Bridge, USB to UART USB 2.0 UART Interface 28-QFN (5x5)	IC5	28-VFQFN	USbtoUART	
61300211121	Connector Header Through Hole 2 position 0.100" (2.54mm)	J1, J2	HEADER-2-Pin	Header-2-Pin-Male	:
USB4105-GF-A	USB-C (USB TYPEC) USB 2.0 Receptacle Connector 24 (16+8 Dummy) Position Surface Mount, Right Angle; Through Hole	ß	USB4105-GF-A	USBC	
HTST-106-01-L-DV-P- TR	Connector Header Through Hole 12 position 0.100" (2.54mm)	PI	HTST-106-01-L-DV-P- TR	BoardToBoard_Botto m	
22-27-2041	Male Header, Pitch 2.54 mm, 1 x 4 Position, Height 11.7 mm, Tail Length 3.56 mm, RoHS, Bulk	P2	MOLX-22-27-2041_V	Header-4-Pin	
NPP0062KFMS-RC	12 Position Receptacle Connector 0.100' (2.54mm) Through Hole Gold	P3	NPPC062KFMSRC	BoardToBoard_Top	
ERA-3AEB332V	3.3 kOhms ±0.1% 0.1W, 1/10WOhip Resistor 0603 (1608 Metric) Automotive AEC Q200 Thin Film	R1, R2, R6, R7	0603-RES	RES-0603-3.3k	
ERJ-6GEY0R00V	0 Ohms Jumper Chip Resistor 0805 (2012 Metric) Automotive AEC Q200 Thick Film	R3, R4, R5	0805-RES	RES-0805-0R	:
ER.I-3BKF2670V	267 Ohms ±1%0.1W, 1/10W Ohip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thick Film	R6, R9	0603-RES	RES:0603-267R	:
1040310811	10 (8+2) Position Card Connector Secure Digital - microSD™Surface Mount, Right Angle Gold	SD1	MOLX-104031-0811_V	microSD-card- connector	
ABLS-8.000MHZ-B2-T	8 MHz ±20ppm Orystal 18pF 80 Ohms HC- 49/US	YI	ABLS-8.000MHZ-B2-T	OSC-8MHz-3V3	