

Designator	Comment	Footprint	Part Number	Part Description	Quantity
B1, B2	Non Plated Hole	MTG600H320V8P	NON-PLATED_HOLE3.2_PAD6.0_8p	Through Hole: Hole Dia.=3.2mm Pad Dia.=6mm + 6 Via Dia.=0.3mm	2
C1, C2, C3, C8, C13, C14	100n	CAPC1608X87N	CC0603_100NF_50V_10%_X7R	SMD Multilayer Chip Ceramic Capacitor	6
C4, C5, C6, C9, C10, C11	10u	CAPC3225X270N	CC1210_10UF_50V_10%_X7R	SMD Multilayer Chip Ceramic Capacitor	6
C7, C12	4.7u	CAPC1608X87N	CC0603_4.7UF_10V_10%_X5R	SMD Multilayer Chip Ceramic Capacitor	2
D1	BZV55-B10	DIOMELF3515N	BZV55-B10	Voltage Regulator Diode	1
D2	CDSOD323-T03C	SOD2512X110N	CDSOD323-T03C	TVS Diode	1
D3	SBRT15U100SP5	SBRT15U100SP5	SBRT15U100SP5	Schottky Rectifier	1
D4	CDSOT23-SM712	SOT95P240X130-3N	CDSOT23-SM712	TVS Diode	1
J1	Header 4	3M_2304-6111-TG	3M_2304-6111-TG	4 Contacts - Vertical Contacts Straight Strip Header Pitch 2.54	1
L1	10uH	IND_BOURNS_PM127SH	IND_10UH_20%_SUMIDA_CDRH125	Shielded SMD Power Inductors CDRH125 Series	1
LD1	Red	LEDC1608X80N_RED	LED_ROHM_SML-311UTT86K	Low current chip LED SML-311 Serie	1
Q1	IRFHM9331	PQFN50P300X300X100_HS-9N	IRFHM9331TRPbF	-30V 11A 0.014 Ohm P-Channel MOSFET	1
Q2	AON6294	DFN-5X6-8L	AON6294	100V N-Channel AlphaMOS	1
R1	5k1	RESC1608X55N	R0603_5K1_1%_0.1W_100PPM	General Purpose Thick Film Chip Resistor	1
R2, R4	100k	RESC1608X55N	R0603_100K_1%_0.1W_100PPM	General Purpose Thick Film Chip Resistor	2
R3, R5	2k	RESC1608X55N	R0603_2K_1%_0.1W_100PPM	General Purpose Thick Film Chip Resistor	2
R6	0R033	RESC3216X80N	R1206_0R033_1%_0.25W_100PPM	Low Value Flat Chip Resistor	1
R7	120	RESC1005X40N	R0402_120R_1%_0.0625W_100PPM	General Purpose Thick Film Chip Resistor	1
U1	TS5A3159	SOT65P210X110-6N	TS5A3159DCKR	1-Ω SPDT Analog Switch	1
U2	L78M05CDT	TO228P1010X239-3N-R521X544	L78M05CDT-TR	3-Terminal 5V 0.5A Positive Voltage Regulator	1
U3	STM32G031F6P6	SOP65P640X110-20N	STM32G031F6P6	Arm® Cortex®-M0+ 32-bit MCU	1
U4	XC6206P332MR	SOT95P280X115-3N	XC6206P332MR	3-Terminal 3.3V 200mA Positive Voltage Regulator	1
U5	INA213	SOT65P210X110-6N	INA213xID	Current-Shunt Monitors, -0.3 V to 26 V	1
U6	MAX485ESA	SOIC127P600X175-8N	MAX485ESA	Low-Power, Slew-Rate-Limited RS-485/RS-422 Transceivers	1

View from Top side (Scale 4.2063:1)







