

Designator	Value	Comment	Description	Footprint	Quantity
C1	0.1uF	Capacitor - Nonpolarized	Nonpolarized Capacitor	0805 - Capacitor	1
C2	10nF	10V	C0805C103K8RAC780 0. 10000pF ±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric)	0805 - Capacitor	1
C3, C4	2.2uF	10V	Nonpolarized Capacitor	0805 - Capacitor	2
C5	1uF	100V	TDK C2012X7S2A105KT00 0N, 1UF ±10% 100V X7S 0805 MULTILAYER CERAMIC CAPACITORS MLCC - SMD/SMT ROHS	0805 - Capacitor	1
C6, C11, C16, C18, C21	NF	Capacitor - Nonpolarized	Nonpolarized Capacitor	0805 - Capacitor	5
C7, C8, C12, C13, C14, C15, C17	0.1uF	100V	CL21B104KCFNNNE, MULTILAYER CERAMIC CAPACITORS MLCC - SMD/SMT 100NF 100V 0805 ROHS	0805 - Capacitor	7
C9, C10	28pF	100V	CL21B104KCFNNNE, MULTILAYER CERAMIC CAPACITORS MLCC - SMD/SMT 100NF 100V 0805 ROHS	0805 - Capacitor	2
C19, C20	10uF	Capacitor - Nonpolarized	Nonpolarized Capacitor	0805 - Capacitor	2
C22	100uF	Capacitor - Nonpolarized	Nonpolarized Capacitor	0805 - Capacitor	1
P1		1x7 Header	1x7 Pin Header	HDR1X7	1
P2		Header 18X2	Header, 18-Pin, Dual row	HDR2X18	1
R1, R2, R4, R5, R6	0	Resistor	Resistor	0603 - Resistor	5
R3	10k	10k	Resistor	0603 - Resistor	1
S1		Switch - Push Button	Push Button Switch	6x6mm Switch	1
U1		TMUX1208PWR	Integrated Circuit	SOP65P640X120-16N	1
U2		LM324AMX/NOPB	Gen Purp 4Ch Opamp	LM324AMX/NOPB	1
U3		STM32F405RGT6	ST 64-pin Micro	STM32F405RG	1
U4		TLV1117-33IDCYR	Linear Voltage Regulator IC 3.3V 800MA SOT223-4	TLV1117	1
Y1		ABM3-16.000MHZ-B2-T	16MHz Â±20ppm Crystal 18pF 40 Ohms 2-SMD, No Lead	ABM3-16.000MHZ-B2-T	1









