

Designator	Value	Comment	Description	Footprint	Quantity
C1, C6, C22	0.1uF	Capacitor - Nonpolarized	Nonpolarized Capacitor	0805 - Capacitor	3
C2	10nF	10V	Nonpolarized Capacitor	0805 - Capacitor	1
C3, C4	2.2uF	Capacitor - Nonpolarized	Nonpolarized Capacitor	0805 - Capacitor	2
C5	1uF	100V	Nonpolarized Capacitor	0805 - Capacitor	1
C7, C8, C12, C13, C14	0.1uF	100V	Nonpolarized Capacitor	0805 - Capacitor	5
C9, C10	27pF	100V	Nonpolarized Capacitor	0805 - Capacitor	2
C11, C16, C18, C21	47nF	Capacitor - Nonpolarized	Nonpolarized Capacitor	0805 - Capacitor	4
C19, C20	10uF	Capacitor - Nonpolarized	Nonpolarized Capacitor	0805 - Capacitor	2
P1		Programming	1x7 Pin Header	HDR1X7	1
P2		Header 18X2	Header, 18-Pin, Dual row	HDR2X18	1
R1	100	Resistor	Resistor	0603 - Resistor	1
R2, R4, R5, R6	500m	Resistor	Resistor	0603 - Resistor	4
R3	10k	10k	Resistor	0603 - Resistor	1
S1		Switch - Push Button	Push Button Switch	6x6mm Switch	1
U1		MX3L4051PW,118	8:1 MUX	SOP65P640X120-16N	1
U2		LM324AMX/NOPB	Gen Purp 4Ch Opamp	LM324AMX/NOPB	1
U3		STM32F405RGT6	ST 64-pin Micro	STM32F405RG	1
U4		TLV1117-33IDC/YR	Linear Voltage Regulator IC 3.3V 800mA SOT223-4	TLV1117	1
Y1	16M	Oscillator	Crystal Oscillator	2-SMD NO LEAD CRYSTAL	1