

Ref	Value	Package	Price	SMD	THT	Notes	Digikey Part #
ADC1	ADS1299-8	Package_QFP:TQFP-64_10x10mm_P0.5mm	\$86.98		1	0 8 Channel AFE 24 Bit 42mW 64-TQFP (10x10)	296-34818-1-ND
C1	24nF	Capacitor_SMD:C_0805_2012Metric	\$0.82		1	0 0.022µF ±5% 50V Ceramic Capacitor C0G, NP0 0805 (2012 Metric)	490-1644-1-ND
C2	24nF	Capacitor_SMD:C_0805_2012Metric	\$0.82		1	0 0.022µF ±5% 50V Ceramic Capacitor C0G, NP0 0805 (2012 Metric)	490-1644-1-ND
C3	24nF	Capacitor_SMD:C_0805_2012Metric	\$0.82		1	0 0.022µF ±5% 50V Ceramic Capacitor C0G, NP0 0805 (2012 Metric)	490-1644-1-ND
C4	24nF	Capacitor_SMD:C_0805_2012Metric	\$0.82		1	0 0.022µF ±5% 50V Ceramic Capacitor C0G, NP0 0805 (2012 Metric)	490-1644-1-ND
C5	24nF	Capacitor_SMD:C_0805_2012Metric	\$0.82		1	0 0.022µF ±5% 50V Ceramic Capacitor C0G, NP0 0805 (2012 Metric)	490-1644-1-ND
C6	24nF	Capacitor_SMD:C_0805_2012Metric	\$0.82		1	0 0.022µF ±5% 50V Ceramic Capacitor C0G, NP0 0805 (2012 Metric)	490-1644-1-ND
C7	24nF	Capacitor_SMD:C_0805_2012Metric	\$0.82		1	0 0.022µF ±5% 50V Ceramic Capacitor C0G, NP0 0805 (2012 Metric)	490-1644-1-ND
C8	24nF	Capacitor_SMD:C_0805_2012Metric	\$0.82		1	0 0.022µF ±5% 50V Ceramic Capacitor C0G, NP0 0805 (2012 Metric)	490-1644-1-ND
C9	1uF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 1µF ±20% 16V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-6524-1-ND
C10	1uF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 1µF ±20% 16V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-6524-1-ND
C12	0.1uF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C13	10uF	Capacitor_SMD:C_0603_1608Metric	\$0.28		1	0 10µF ±20% 6.3V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1119-1-ND
C14	1uF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 1µF ±20% 16V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-6524-1-ND
C15	0.1uF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C16	100uF	Capacitor_SMD:C_1206_3216Metric	\$2.60		1	0 100µF ±20% 10V Ceramic Capacitor X5R 1206 (3216 Metric)	445-6007-1-ND
C17	1uF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 1µF ±20% 16V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-6524-1-ND
C18	1uF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 1µF ±20% 16V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-6524-1-ND
C19	1uF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 1µF ±20% 16V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-6524-1-ND
C20	0.1uF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C21	1uF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 1µF ±20% 16V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-6524-1-ND
C22	100nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C23	1uF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 1µF ±20% 16V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-6524-1-ND
C24	4.7uF	Capacitor_SMD:C_0603_1608Metric	\$0.58		1	0 4.7µF ±10% 25V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1900-1-ND
C25	1uF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 1µF ±20% 16V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-6524-1-ND
C26	100uF	Capacitor_SMD:C_1206_3216Metric	\$2.60		1	0 100µF ±20% 10V Ceramic Capacitor X5R 1206 (3216 Metric)	445-6007-1-ND
C27	10uF	Capacitor_SMD:C_0603_1608Metric	\$0.28		1	0 10µF ±20% 6.3V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1119-1-ND
C28	100uF	Capacitor_SMD:C_1206_3216Metric	\$2.60		1	0 100µF ±20% 10V Ceramic Capacitor X5R 1206 (3216 Metric)	445-6007-1-ND
C29	100nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C30	10uF	Capacitor_SMD:C_0603_1608Metric	\$0.28		1	0 10µF ±20% 6.3V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1119-1-ND
C31	10nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C32	100nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C33	10nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C34	1nF	Capacitor_SMD:C_0603_1608Metric	\$0.16		1	0 1000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	311-1080-1-ND
C35	10nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C36	1nF	Capacitor_SMD:C_0603_1608Metric	\$0.16		1	0 1000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	311-1080-1-ND
C37	100nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C38	10nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C39	10uF	Capacitor_SMD:C_0603_1608Metric	\$0.28		1	0 10µF ±20% 6.3V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1119-1-ND
C40	100nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C41	10uF	Capacitor_SMD:C_0603_1608Metric	\$0.28		1	0 10µF ±20% 6.3V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1119-1-ND
C42	100uF	Capacitor_SMD:C_1206_3216Metric	\$2.60		1	0 100µF ±20% 10V Ceramic Capacitor X5R 1206 (3216 Metric)	445-6007-1-ND
C43	10uF	Capacitor_SMD:C_0603_1608Metric	\$0.28		1	0 10µF ±20% 6.3V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1119-1-ND
C44	100uF	Capacitor_SMD:C_1206_3216Metric	\$2.60		1	0 100µF ±20% 10V Ceramic Capacitor X5R 1206 (3216 Metric)	445-6007-1-ND
C45	10uF	Capacitor_SMD:C_0603_1608Metric	\$0.28		1	0 10µF ±20% 6.3V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1119-1-ND
C46	100nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C47	10nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C48	1nF	Capacitor_SMD:C_0603_1608Metric	\$0.16		1	0 1000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	311-1080-1-ND
C49	10nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C50	100nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C51	10uF	Capacitor_SMD:C_0603_1608Metric	\$0.28		1	0 10µF ±20% 6.3V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1119-1-ND
C52	4.7uF	Capacitor_SMD:C_0603_1608Metric	\$0.58		1	0 4.7µF ±10% 25V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1900-1-ND
C53	100nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C54	100nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C55	10uF	Capacitor_SMD:C_0603_1608Metric	\$0.28		1	0 10µF ±20% 6.3V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1119-1-ND
C56	100nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C57	10nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C58	10nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C59	100nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C60	100nF	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C61	10uF	Capacitor_SMD:C_0603_1608Metric	\$0.28		1	0 10µF ±20% 6.3V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1119-1-ND
C62	10uF	Capacitor_SMD:C_0603_1608Metric	\$0.28		1	0 10µF ±20% 6.3V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1119-1-ND
C63	100n	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C64	10n	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C65	10n	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C66	100n	Capacitor_SMD:C_0603_1608Metric	\$0.17		1	0 0.1µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
D3	7.5V	Diode_SMD:D_SMA	\$0.72		1	0 Zener Diode 7.5V 1.5W ±5% Surface Mount SMA	1SMA5922BT3GOSCT-ND
D4	LTST-C194TBKT	LED_SMD:LED_0603_1608Metric	\$0.70		1	0 Blue 468nm LED Indication - Discrete 3.3V 0603 (1608 Metric)	160-1837-1-ND
D5	LTST-C191KGKT	LED_SMD:LED_0603_1608Metric	\$0.41		1	0 Green 571nm LED Indication - Discrete 2V 0603 (1608 Metric)	160-1446-1-ND
D6	LTST-C194TBKT	LED_SMD:LED_0603_1608Metric	\$0.70		1	0 Blue 468nm LED Indication - Discrete 3.3V 0603 (1608 Metric)	160-1837-1-ND
D7	B130-13-F	Diode_SMD:D_SMA	\$0.55		1	0 Diode Schottky 30V 1A Surface Mount SMA	B130-FDICT-ND
D8	LTST-C191KRKT	LED_SMD:LED_0603_1608Metric	\$0.43		1	0 Red 631nm LED Indication - Discrete 2V 0603 (1608 Metric)	160-1447-1-ND
D9	LTST-C191KGKT	LED_SMD:LED_0603_1608Metric	\$0.41		1	0 Green 571nm LED Indication - Discrete 2V 0603 (1608 Metric)	160-1446-1-ND

F1	025101.5MAT1L	Resistor_THT:R_Axial_DIN0309_L9.0mm_D3.2mm_P12.70mm_Horizontal	\$1.41	0	1	1.5A 125V AC 125V DC Fuse Board Mount (Cartridge Style Excluded) Through Hole Axial	F2319-ND
F2	MF-MSMF050-2	Fuse:Fuse_1812_4532Metric	\$0.78	1	0	Polymeric PTC Resettable Fuse 15V 500mA 1h Surface Mount 1812 (4532 Metric), Concave	MF-MSMF050-2CT-ND
J1	Conn_01x01_Male	Sparker:DIN 42802-1	\$4.15	0	1	Touch-protected Ø 1.5 mm Panelmounting Receptacles (DIN 42802)	(RSONline) 409-3911
J2	USB_B_Mini	Connector_USB:USB_Micro-B_Wuerth_629105150521	\$3.44	1	0	USB - micro B USB 2.0 Receptacle Connector 5 Position Surface Mount, Right Angle; Through Hole	732-5960-1-ND
J3	Conn_01x01_Male	Sparker:DIN 42802-1	\$4.15	0	1	Touch-protected Ø 1.5 mm Panelmounting Receptacles (DIN 42802)	(RSONline) 409-3911
J4	DC Barrel Jack	Connector_BarrelJack:BarrelJack_CUI_PJ-063AH_Horizontal	\$2.15	0	1	Power Barrel Connector Jack 2.10mm ID (0.083"), 5.50mm OD (0.217") Through Hole, Right Angle	CP-063AH-ND
J5	HC-05 BT Module	Resonators:HC-05	\$13.20	0	1	Bluetooth Module (HC-05)	(Core) CE00021
J6	ICSP Header	Connector_PinHeader_2.54mm:PinHeader_2x03_P2.54mm_Vertical	\$0.72	0	1	Connector Header Through Hole 6 position 0.100" (2.54mm)	609-3210-ND
J7	VIN_RAW_TP	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical	\$0.00	0	1	2.5mm Pin Header Snip Off	NA
J8	Conn_01x01_Male	Sparker:DIN 42802-1	\$4.15	0	1	Touch-protected Ø 1.5 mm Panelmounting Receptacles (DIN 42802)	(RSONline) 409-3911
J9	Conn_01x01_Male	Sparker:DIN 42802-1	\$4.15	0	1	Touch-protected Ø 1.5 mm Panelmounting Receptacles (DIN 42802)	(RSONline) 409-3911
J10	~CS~_TP	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical	\$0.00	0	1	2.5mm Pin Header Snip Off	NA
J11	Conn_01x01_Male	Sparker:DIN 42802-1	\$4.15	0	1	Touch-protected Ø 1.5 mm Panelmounting Receptacles (DIN 42802)	(RSONline) 409-3911
J12	START_TP	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical	\$0.00	0	1	2.5mm Pin Header Snip Off	NA
J13	Conn_01x01_Male	Sparker:DIN 42802-1	\$4.15	0	1	Touch-protected Ø 1.5 mm Panelmounting Receptacles (DIN 42802)	(RSONline) 409-3911
J14	VREFP_TP	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical	\$0.00	0	1	2.5mm Pin Header Snip Off	NA
J15	VCAP1_TP	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical	\$0.00	0	1	2.5mm Pin Header Snip Off	NA
J16	DRDY_TP	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical	\$0.00	0	1	2.5mm Pin Header Snip Off	NA
J17	Conn_01x01_Male	Sparker:DIN 42802-1	\$4.15	0	1	Touch-protected Ø 1.5 mm Panelmounting Receptacles (DIN 42802)	(RSONline) 409-3911
J18	Conn_01x01_Male	Sparker:DIN 42802-1	\$4.15	0	1	Touch-protected Ø 1.5 mm Panelmounting Receptacles (DIN 42802)	(RSONline) 409-3911
J19	Conn_01x01_Male	Sparker:DIN 42802-1	\$4.15	0	1	Touch-protected Ø 1.5 mm Panelmounting Receptacles (DIN 42802)	(RSONline) 409-3911
LOGO1	UoNLogo	Sparker:UoN		0	0		
LOGO2	SparkerLogo	Sparker:NASA		0	0		
LOGO3	VersionLogo	Sparker:Block2		0	0		
MH1	MountingHole	MountingHole:MountingHole_3.2mm_M3		0	0		
MH2	MountingHole	MountingHole:MountingHole_3.2mm_M3		0	0		
MH3	MountingHole	MountingHole:MountingHole_3.2mm_M3		0	0		
MH4	MountingHole	MountingHole:MountingHole_3.2mm_M3		0	0		
PB1	TE-1825910-6	Switches:1825910-6	\$0.16	0	1	Tactile Switch SPST-NO Top Actuated Through Hole	450-1650-ND
Q1	DMP2100U	Package_TO_SOT_SMD:SOT-23	\$0.67	1	0	P-Channel 20V 4.3A (Ta) 800mW (Ta) Surface Mount SOT-23	DMP2100U-7CT-ND
R3	220k	Resistor_SMD:R_0603_1608Metric	\$0.58	1	0	220 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P220KDBCT-ND
R4	220k	Resistor_SMD:R_0603_1608Metric	\$0.58	1	0	220 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P220KDBCT-ND
R5	220k	Resistor_SMD:R_0603_1608Metric	\$0.58	1	0	220 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P220KDBCT-ND
R6	220k	Resistor_SMD:R_0603_1608Metric	\$0.58	1	0	220 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P220KDBCT-ND
R7	220k	Resistor_SMD:R_0603_1608Metric	\$0.58	1	0	220 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P220KDBCT-ND
R8	220k	Resistor_SMD:R_0603_1608Metric	\$0.58	1	0	220 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P220KDBCT-ND
R9	220k	Resistor_SMD:R_0603_1608Metric	\$0.58	1	0	220 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P220KDBCT-ND
R10	220k	Resistor_SMD:R_0603_1608Metric	\$0.58	1	0	220 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P220KDBCT-ND
R11	220k	Resistor_SMD:R_0603_1608Metric	\$0.58	1	0	220 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P220KDBCT-ND
R12	33k	Resistor_SMD:R_0603_1608Metric	\$0.54	1	0	33 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P33KDBCT-ND
R13	33k	Resistor_SMD:R_0603_1608Metric	\$0.54	1	0	33 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P33KDBCT-ND
R14	33k	Resistor_SMD:R_0603_1608Metric	\$0.57	1	0	33 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P33KDBCT-ND
R15	33k	Resistor_SMD:R_0603_1608Metric	\$0.57	1	0	33 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P33KDBCT-ND
R16	1K	Resistor_SMD:R_0603_1608Metric	\$0.17	1	0	1 kOhms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	RHM1.0KDCT-ND
R17	1K	Resistor_SMD:R_0603_1608Metric	\$0.17	1	0	1 kOhms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	RHM1.0KDCT-ND
R18	1K	Resistor_SMD:R_0603_1608Metric	\$0.17	1	0	1 kOhms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	RHM1.0KDCT-ND
R19	33k	Resistor_SMD:R_0603_1608Metric	\$0.57	1	0	33 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P33KDBCT-ND
R20	2K	Resistor_SMD:R_0603_1608Metric	\$1.05	1	0	2 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Anti-Sulfur Thin Film	749-1706-1-ND
R21	1K	Resistor_SMD:R_0603_1608Metric	\$0.17	1	0	1 kOhms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	RHM1.0KDCT-ND
R22	100	Resistor_SMD:R_0603_1608Metric	\$0.17	1	0	100 Ohms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	RHM100DCT-ND
R23	100	Resistor_SMD:R_0603_1608Metric	\$0.17	1	0	100 Ohms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	RHM100DCT-ND
R24	100	Resistor_SMD:R_0603_1608Metric	\$0.17	1	0	100 Ohms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	RHM100DCT-ND
R25	100	Resistor_SMD:R_0603_1608Metric	\$0.17	1	0	100 Ohms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	RHM100DCT-ND
R26	100	Resistor_SMD:R_0603_1608Metric	\$0.17	1	0	100 Ohms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	RHM100DCT-ND
R27	100k	Resistor_SMD:R_0603_1608Metric	\$0.22	1	0	100 kOhms ±1% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	RHM100KADCT-ND
R28	100k	Resistor_SMD:R_0603_1608Metric	\$0.22	1	0	100 kOhms ±1% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	RHM100KADCT-ND
SW3	SW_SPDT	Switches:SPDT-THT_Slide	\$1.03	0	1	Slide Switch SPDT Through Hole	EG1903-ND
SW4	SW_SPDT	Switches:SPDT-THT_Slide	\$1.03	0	1	Slide Switch SPDT Through Hole	EG1903-ND
SW5	SW_SPDT	Switches:SPDT-THT_Slide	\$1.03	0	1	Slide Switch SPDT Through Hole	EG1903-ND
SW6	SW_SPDT	Switches:SPDT-THT_Slide	\$1.03	0	1	Slide Switch SPDT Through Hole	EG1903-ND
SW7	SW_SPDT	Switches:SPDT-THT_Slide	\$1.03	0	1	Slide Switch SPDT Through Hole	EG1903-ND
SW8	SW_SPDT	Switches:SPDT-THT_Slide	\$1.03	0	1	Slide Switch SPDT Through Hole	EG1903-ND
SW9	SW_SPDT	Switches:SPDT-THT_Slide	\$1.03	0	1	Slide Switch SPDT Through Hole	EG1903-ND
SW10	SW_SPDT	Switches:SPDT-THT_Slide	\$1.03	0	1	Slide Switch SPDT Through Hole	EG1903-ND
SW11	SW_SPDT	Switches:SPDT-THT_Slide	\$1.03	0	1	Slide Switch SPDT Through Hole	EG1903-ND
U1	ATmega328P-AU	Package_QFP:TQFP-32_7x7mm_P0.8mm	\$2.12	1	0	AVR AVR® ATmega Microcontroller IC 8-Bit 20MHz 32KB (16K x 16) FLASH 32-TQFP (7x7)	ATMEGA328PB-AU-ND
U2	MCP1755T-5002E_SOT223-5	Package_TO_SOT_SMD:SOT-223-6	\$1.03	1	0	Linear Voltage Regulator IC 1 Output 300mA SOT-223-5	MCP1755T-5002E/DCCT-ND
U3	LM3480-3.3	Package_TO_SOT_SMD:SOT-23	\$1.65	1	0	Linear Voltage Regulator IC 1 Output 100mA SOT-23-3	LM3480IM3-3.3/NOPBCT-ND
U4	MCP1755T-5002E_SOT223-5	Package_TO_SOT_SMD:SOT-223-6	\$1.03	1	0	Linear Voltage Regulator IC 1 Output 300mA SOT-223-5	MCP1755T-5002E/DCCT-ND
U5	FT232RL	Package_SO:SSOP-28_5.3x10.2mm_P0.65mm	\$7.11	1	0	USB Bridge, USB to UART USB 2.0 UART Interface 28-SSOP	768-1007-1-ND
U6	TXS0108EPWR	Package_SO:TSSOP-20_4.4x6.5mm_P0.65mm	\$2.15	1	0	Voltage Level Translator Bidirectional 1 Circuit 8 Channel 60Mbps 20-TSSOP	296-23011-1-ND
Y1	16MHz	Resonators:CSTNE16M0V53Z000R0	\$0.52	1	0	16MHz Ceramic Resonator Built in Capacitor 15pF ±0.3% 40 Ohms -40°C ~ 125°C Surface Mount	490-17950-1-ND