					2111 2 111
	Value	Package		THT Notes	Digikey Part #
	10n	Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
	0.1u	Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 0.1μF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
	4.7u	Capacitor_SMD:C_0603_1608Metric	\$0.63 1	0 4.7μF ±10% 25V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1900-1-ND
C16	100n 10n	Capacitor_SMD:C_0603_1608Metric	\$0.17 1 \$0.17 1	0 0.1μF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND 445-5662-1-ND
C18	100n	Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	
C2 C20	100n	Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 0.1μF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND 445-5662-1-ND
C21	100n	Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
	10n	Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 0.1μF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C23 C25	1n	Capacitor_SMD:C_0603_1608Metric Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric) 0 1000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	311-1080-1-ND
C26	100n	Capacitor SMD:C 0603 1608Metric	\$0.17 1	0 0.1μF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C28	10n	Capacitor_SMD:C_0003_1008Metric	\$0.17 1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C30	100n	Capacitor SMD:C 0603 1608Metric	\$0.17	0 0.1μF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C32	10n	Capacitor SMD:C 0603 1608Metric	\$0.17	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C34	10n	Capacitor SMD:C 0603 1608Metric	\$0.17	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C35	100n	Capacitor SMD:C 0603 1608Metric	\$0.17	0 0.1μF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C37	10n	Capacitor SMD:C 0603 1608Metric	\$0.17	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C39	100n	Capacitor SMD:C 0603 1608Metric	\$0.17 1	0 0.1μF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
	10n	Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
	1n	Capacitor SMD:C 0603 1608Metric	\$0.17 1	0 1000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	311-1080-1-ND
	1u	Capacitor SMD:C 0603 1608Metric	\$0.17	0 1µF ±20% 16V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-6524-1-ND
	10n	Capacitor SMD:C 0603 1608Metric	\$0.17 1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
	4.7u	Capacitor SMD:C 0603 1608Metric	\$0.63 1	0 4.7µF ±10% 25V Ceramic Capacitor X7N 0603 (1608 Metric)	1276-1900-1-ND
	2.2u	Capacitor SMD:C 0603 1608Metric	\$0.24 1	0 2.2μF ±10% 16V Ceramic Capacitor X5R 0603 (1608 Metric)	399-7886-1-ND
C50	1u	Capacitor SMD:C 0603 1608Metric	\$0.17 1	0 1μF ±20% 16V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-6524-1-ND
	2.2u	Capacitor_SMD:C_0603_1608Metric	\$0.24 1	0 2.2μF ±10% 16V Ceramic Capacitor X5R 0603 (1608 Metric)	399-7886-1-ND
C52	10n	Capacitor SMD:C 0603 1608Metric	\$0.17 1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C53	100u	Capacitor_SMD:CP_Elec_6.3x7.7	\$0.80 1	0 100μF 25V Aluminum Electrolytic Capacitors Radial, Can - SMD 2000 Hrs @ 85°C	PCE3898CT-ND
C55	10u	Capacitor_SMD:CP_Elec_4x5.4	\$0.46 1	0 10μF 16V Aluminum Electrolytic Capacitors Radial, Can - SMD 2000 Hrs @ 85°C	493-2100-1-ND
C57	4.7u	Capacitor_SMD:C_0603_1608Metric	\$0.63 1	0 4.7μF ±10% 25V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1900-1-ND
C60	4.7u	Capacitor_SMD:C_0603_1608Metric	\$0.63 1	0 4.7μF ±10% 25V Ceramic Capacitor X5R 0603 (1608 Metric)	1276-1900-1-ND
C61	100n	Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 0.1μF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C62	100n	Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 0.1μF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C63	10n	Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-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
C67	100n	Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 0.1μF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C68	4.7u	Capacitor_SMD:C_0603_1608Metric	\$0.63	0 4.7μF ±10% 25V Ceramic Capacitor XSR 0603 (1608 Metric)	1276-1900-1-ND
C70	100n	Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 0.1μF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
C71	10n	Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 10000pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	445-5662-1-ND
C9	100n	Capacitor_SMD:C_0603_1608Metric	\$0.17 1	0 0.1μF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	1276-CL10B104KB8NNNLCT-ND
D1	LTST-C171TGKT	LED_SMD:LED_0805_2012Metric	\$0.44 1	0 Green 571nm LED Indication - Discrete 2V 0603 (1608 Metric)	160-1446-1-ND
D2	LO R976-PS-1	LED_SMD:LED_0805_2012Metric	\$0.47 1	0 Orange 606nm LED Indication - Discrete 2V 0805 (2012 Metric)	475-2488-1-ND
D3	10V	Diode_SMD:D_SMA	\$0.76 1	0 Zener Diode 10V 1W ±5% Surface Mount SMA	SMAZ10-FDICT-ND
D6	LTST-C171TGKT	LED_SMD:LED_0805_2012Metric	\$0.44 1	0 Green 571nm LED Indication - Discrete 2V 0603 (1608 Metric)	160-1446-1-ND
J1	SWD Header	Connector_PinHeader_2.54mm:PinHeader_1x06_P2.54mm_Vertical	\$0.46 0	1 Connector Header Through Hole 6 position 0.100" (2.54mm)	609-3263-ND
J10	USB_B_Mini	Connector_USB:USB_Micro-B_Wuerth_629105150521	\$3.51 1	0 USB - micro B USB 2.0 Receptacle Connector 5 Position Surface Mount, Right Angle; Through Hole	732-5960-1-ND
J2	Barrel_Jack	Connector_BarrelJack:BarrelJack_CUI_PJ-063AH_Horizontal	\$2.31 0	1 Power Barrel Connector Jack 2.10mm ID (0.083"), 5.50mm OD (0.217") Through Hole, Right Angle	CP-063AH-ND
J3	Thumb	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Horizontal	\$0.25 0	1 Connector Header Through Hole, Right Angle 3 position 0.100" (2.54mm)	609-6345-ND
J4	Index	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Horizontal	\$0.25 0	1 Connector Header Through Hole, Right Angle 3 position 0.100" (2.54mm)	609-6345-ND
J5	Middle	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Horizontal	\$0.25 0	1 Connector Header Through Hole, Right Angle 3 position 0.100" (2.54mm)	609-6345-ND
J6	Ring	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Horizontal	\$0.25 0	1 Connector Header Through Hole, Right Angle 3 position 0.100" (2.54mm)	609-6345-ND
	Pinky	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Horizontal	\$0.25 0	1 Connector Header Through Hole, Right Angle 3 position 0.100" (2.54mm)	609-6345-ND
J8	Wrist	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Horizontal	\$0.25 0	1 Connector Header Through Hole, Right Angle 3 position 0.100" (2.54mm)	609-6345-ND
J9	HC05	Resonators:HC-05	\$1.12 0	1 6 Position Header Connector Through Hole, Right Angle	S5481-ND
LOGO1	SparkerLogo	Sparker:NASA_small	\$0.00 0	0 Silkscreen	
LOGO2	UoNLogo	Sparker:UoN	\$0.00 0	0 Silkscreen	
MH1		MountingHole:MountingHole 2.7mm M2.5	\$0.00	0 Mounting Hole	
N 41 12	MountingHole	0 0 0 0		0 84 11 - 1 -	1
	MountingHole	MountingHole:MountingHole_2.7mm_M2.5	\$0.00 0	0 Mounting Hole	
МН3	MountingHole MountingHole	MountingHole:MountingHole_2.7mm_M2.5 MountingHole:MountingHole_2.7mm_M2.5	\$0.00 0 \$0.00 0	0 Mounting Hole	CO242FF1/ T4
MH3 Q1	MountingHole MountingHole SQ3425EV-T1_GE3	MountingHole:MountingHole_2.7mm_M2.5 MountingHole:MountingHole_2.7mm_M2.5 Package_TO_SOT_SMD:TSOT-23-6	\$0.00 0 \$0.00 0 \$1.07 1	0 Mounting Hole 0 P-Channel 20V 7.4A (Tc) 5W (Tc) Surface Mount 6-TSOP	SQ3425EV-T1_GE3CT-ND
MH3 Q1 R1	MountingHole MountingHole SQ3425EV-T1_GE3 100k	MountingHole:MountingHole_2.7mm_M2.5 MountingHole:MountingHole_2.7mm_M2.5 Package_TO_SOT_SMD:TSOT-23-6 Resistor_SMD:R_0603_1608Metric	\$0.00 0 \$0.00 0 \$1.07 1 \$0.58 1	0 Mounting Hole 0 P-Channel 20V 7.4A (Tc) 5W (Tc) Surface Mount 6-TSOP 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P100KDBCT-ND
	MountingHole MountingHole SQ3425EV-T1_GE3 100k 50m	MountingHole:MountingHole_2.7mm_M2.5 MountingHole:MountingHole_2.7mm_M2.5 Package_TO_SOT_SMD:TSOT-23-6 Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.00 0 \$0.00 0 \$1.07 1 \$0.58 1 \$0.68 1	0 Mounting Hole 0 P-Channel 20V 7.4A (Tc) 5W (Tc) Surface Mount 6-TSOP 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film	P100KDBCT-ND 273-KDV06DR050ETCT-ND
MH3 Q1 R1 R10 R11	MountingHole MountingHole SQ3425EV-T1_GE3 100k 50m 50m	MountingHole:MountingHole_2.7mm_M2.5 MountingHole:MountingHole_2.7mm_M2.5 Package_TO_SOT_SMD:TSOT-23-6 Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.00 0 \$0.00 0 \$1.07 1 \$0.58 1 \$0.68 1 \$0.68 1	0 Mounting Hole 0 P-Channel 20V 7.4A (Tc) 5W (Tc) Surface Mount 6-TSOP 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film	P100KDBCT-ND 273-KDV06DR050ETCT-ND 273-KDV06DR050ETCT-ND
MH3 Q1 R1 R10 R11 R12	MountingHole MountingHole SQ3425EV-T1_GE3 100k 50m 50m 500k	MountingHole:MountingHole_2.7mm_M2.5 MountingHole:MountingHole_2.7mm_M2.5 Package_TO_SOT_SMD:TSOT-23-6 Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.00 0 \$0.00 0 \$1.07 1 \$0.58 1 \$0.68 1 \$0.68 1 \$0.29 1	0 Mounting Hole 0 P-Channel 20V 7.4A (Tc) 5W (Tc) Surface Mount 6-TSOP 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	P100KDBCT-ND 273-KDV06DR050ETCT-ND 273-KDV06DR050ETCT-ND 541-499KSCT-ND
MH3 Q1 R1 R10 R11 R12 R13	MountingHole MountingHole SQ3425EV-T1_GE3 100k 50m 50m 500k 100k	MountingHole:MountingHole_2.7mm_M2.5 MountingHole:MountingHole_2.7mm_M2.5 Package_TO_SOT_SMD:TSOT-23-6 Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.00 0 \$0.00 0 \$1.07 1 \$0.58 1 \$0.68 1 \$0.68 1 \$0.29 1 \$0.58 1	0 Mounting Hole 0 P-Channel 20V 7.4A (Tc) 5W (Tc) Surface Mount 6-TSOP 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 499 kOhms ±10.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P100KDBCT-ND 273-KDV06DR050ETCT-ND 273-KDV06DR050ETCT-ND 541-499KSCT-ND P100KDBCT-ND
MH3 Q1 R1 R10 R11 R12 R13 R14	MountingHole MountingHole SQ3425EV-T1_GE3 100k 50m 50m 500k 100k 500k	MountingHole:MountingHole_2.7mm_M2.5 MountingHole:MountingHole_2.7mm_M2.5 Package_TO_SOT_SMD:TSOT-23-6 Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.00 0 \$0.00 0 \$1.07 1 \$0.58 1 \$0.68 1 \$0.68 1 \$0.29 1 \$0.58 1	0 Mounting Hole 0 P-Channel 20V 7.4A (Tc) 5W (Tc) Surface Mount 6-TSOP 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	P100KDBCT-ND 273-KDV06DR050ETCT-ND 273-KDV06DR050ETCT-ND 541-499KSCT-ND P100KDBCT-ND 541-499KSCT-ND
MH3 Q1 R1 R10 R11 R12 R13 R14 R15	MountingHole MountingHole SQ3425EV-T1_GE3 100k 50m 50m 500k 100k 500k	MountingHole:MountingHole_2.7mm_M2.5 MountingHole:MountingHole_2.7mm_M2.5 Package_TO_SOT_SMD:TSOT-23-6 Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.00 0 \$0.00 0 \$1.07 1 \$0.58 1 \$0.68 1 \$0.68 1 \$0.29 1 \$0.58 1 \$0.29 1 \$0.58 1	0 Mounting Hole 0 P-Channel 20V 7.4A (Tc) 5W (Tc) Surface Mount 6-TSOP 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P100KDBCT-ND 273-KDV06DR050ETCT-ND 273-KDV06DR050ETCT-ND 541-499KSCT-ND P100KDBCT-ND 541-499KSCT-ND P100KDBCT-ND
MH3 Q1 R1 R10 R11 R12 R13 R14 R15 R16	MountingHole MountingHole SQ3425EV-T1_GE3 100k 50m 500k 100k 500k 100k 500k	MountingHole:MountingHole_2.7mm_M2.5 MountingHole:MountingHole_2.7mm_M2.5 Package_TO_SOT_SMD:TSOT-23-6 Resistor_SMD:R_0603_1608Metric	\$0.00 0 \$0.00 0 \$1.07 1 \$0.58 1 \$0.68 1 \$0.68 1 \$0.29 1 \$0.58 1 \$0.29 1 \$0.58 1 \$0.29 1	0 Mounting Hole 0 P-Channel 20V 7.4A (Tc) 5W (Tc) Surface Mount 6-TSOP 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	P100KDBCT-ND 273-KDV06DR050ETCT-ND 273-KDV06DR050ETCT-ND 541-499KSCT-ND P100KDBCT-ND 541-499KSCT-ND P100KDBCT-ND 541-499KSCT-ND 541-499KSCT-ND
MH3 Q1 R1 R10 R11 R12 R13 R14 R15 R16 R17	MountingHole MountingHole SQ3425EV-T1_GE3 100k 50m 500k 100k 500k 100k 500k 100k 500k	MountingHole:MountingHole_2.7mm_M2.5 MountingHole:MountingHole_2.7mm_M2.5 Package_TO_SOT_SMD:TSOT-23-6 Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.00 0 \$0.00 0 \$1.07 1 \$0.58 1 \$0.68 1 \$0.68 1 \$0.29 1 \$0.58 1 \$0.29 1 \$0.58 1 \$0.29 1 \$0.58 1 \$0.29 1	0 Mounting Hole 0 P-Channel 20V 7.4A (Tc) 5W (Tc) Surface Mount 6-TSOP 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	P100KDBCT-ND 273-KDV06DR050ETCT-ND 273-KDV06DR050ETCT-ND 541-499KSCT-ND P100KDBCT-ND 541-499KSCT-ND P100KDBCT-ND 541-499KSCT-ND P100KDBCT-ND 541-499KSCT-ND P100KDBCT-ND
MH3 Q1 R1 R10 R11 R12 R13 R14 R15 R16 R17 R18	MountingHole MountingHole SQ3425EV-T1_GE3 100k 50m 500k 100k 500k 100k 500k	MountingHole:MountingHole_2.7mm_M2.5 MountingHole:MountingHole_2.7mm_M2.5 Package_TO_SOT_SMD:TSOT-23-6 Resistor_SMD:R_0603_1608Metric	\$0.00 0 \$0.00 0 \$1.07 1 \$0.58 1 \$0.68 1 \$0.68 1 \$0.29 1 \$0.58 1 \$0.29 1 \$0.58 1 \$0.29 1	0 Mounting Hole 0 P-Channel 20V 7.4A (Tc) 5W (Tc) Surface Mount 6-TSOP 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	P100KDBCT-ND 273-KDV06DR050ETCT-ND 273-KDV06DR050ETCT-ND 541-499KSCT-ND P100KDBCT-ND 541-499KSCT-ND P100KDBCT-ND 541-499KSCT-ND 541-499KSCT-ND

Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.29 1 \$0.58 1 \$0.29 1 \$0.58 1 \$0.58 1 \$0.29 1 \$0.58 1 \$0.58 1 \$0.17 1 \$0.31 1 \$0.29 1 \$0.29 1	0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 150 Ohms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 6.8 Ohms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Current Sense Thick Film 0 68 Ohms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	541-499KSCT-ND P100KDBCT-ND 541-499KSCT-ND P100KDBCT-ND 541-499KSCT-ND P100KDBCT-ND RHM150DCT-ND P6.8AJCT-ND 541-68.0SCT-ND
Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.29 1 \$0.58 1 \$0.29 1 \$0.58 1 \$0.17 1 \$0.31 1 \$0.29 1	0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 150 Ohms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 6.8 Ohms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Current Sense Thick Film 0 68 Ohms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	541-499KSCT-ND P100KDBCT-ND 541-499KSCT-ND P100KDBCT-ND RHM150DCT-ND P6.8AJCT-ND
Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.58 1 \$0.29 1 \$0.58 1 \$0.17 1 \$0.31 1 \$0.29 1	0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 150 Ohms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 6.8 Ohms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Current Sense Thick Film 0 68 Ohms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	P100KDBCT-ND 541-499KSCT-ND P100KDBCT-ND RHM150DCT-ND P6.8AJCT-ND
Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.29 1 \$0.58 1 \$0.17 1 \$0.31 1 \$0.29 1	0 499 kOhms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 150 Ohms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 6.8 Ohms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Current Sense Thick Film 0 68 Ohms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	541-499KSCT-ND P100KDBCT-ND RHM150DCT-ND P6.8AJCT-ND
Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.58 1 \$0.17 1 \$0.31 1 \$0.29 1	0 100 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film 0 150 Ohms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 6.8 Ohms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Current Sense Thick Film 0 68 Ohms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	P100KDBCT-ND RHM150DCT-ND P6.8AJCT-ND
Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.17 1 \$0.31 1 \$0.29 1	0 150 Ohms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film 0 6.8 Ohms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Current Sense Thick Film 0 68 Ohms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	RHM150DCT-ND P6.8AJCT-ND
Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.31 1 \$0.29 1	0 6.8 Ohms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Current Sense Thick Film 0 68 Ohms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	P6.8AJCT-ND
Resistor_SMD:R_0603_1608Metric Resistor_SMD:R_0603_1608Metric	\$0.29 1	0 68 Ohms ±1% 0.333W, 1/3W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	
Resistor_SMD:R_0603_1608Metric			541-68.0SCT-ND
	\$0.25		
Desister CAAD-D OCO2 4COOMAstris	70.00	0 33 kOhms ±1% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Pulse Withstanding Thick Film	A130434CT-ND
Resistor_SMD:R_0603_1608Metric	\$0.68 1	0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film	273-KDV06DR050ETCT-ND
Resistor_SMD:R_0603_1608Metric	\$0.68 1	0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film	273-KDV06DR050ETCT-ND
Resistor_SMD:R_0603_1608Metric	\$0.68 1	0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film	273-KDV06DR050ETCT-ND
Resistor_SMD:R_0603_1608Metric	\$0.68 1	0 50 mOhms ±0.5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Current Sense Metal Film	273-KDV06DR050ETCT-ND
Switches:1825910-6	\$0.00	1 Tactile Switch SPST-NO Top Actuated Through Hole	450-1650-ND
Switches:DIP-Switch_01x02	\$0.00 1	0 Dip Switch SPST 2 Position Surface Mount Slide (Standard) Actuator 100mA 20VDC	CT3113CT-ND
Package_TO_SOT_SMD:SOT-223-3_TabPin2	\$0.73	0 Linear Voltage Regulator IC 1 Output 1.2A SOT-223	497-17239-1-ND
Package_QFP:LQFP-100_14x14mm_P0.5mm	\$0.00 1	0 ARM® Cortex®-M4 STM32F4 Microcontroller IC 32-Bit 168MHz 1MB (1M x 8) FLASH 100-LQFP (14x14)	497-17437-1-ND
23-5 Package_TO_SOT_SMD:SOT-223-6	\$0.00 1	0 Linear Voltage Regulator IC 1 Output 300mA SOT-223-5	MCP1755T-5002E/DCCT-ND
Package SO:SSOP-28 5 3v10 2mm P0 65mm	\$7.63 1	0 USB Bridge, USB to UART USB 2.0 UART Interface 28-SSOP	768-1007-1-ND
r ackage_30.330r-20_3.3X10.2HIIII_F0.03HIIII	\$0.47	0 8MHz Ceramic Resonator Built in Capacitor 33pF ±0.2% 40 Ohms -40°C ~ 85°C Surface Mount	490-17958-1-ND
_	Package_SO:SSOP-28_5.3x10.2mm_P0.65mm	<u> </u>	Package_S0:SSOP-28_5.3x10.2mm_P0.65mm \$7.63 1 0 USB Bridge, USB to UART USB 2.0 UART Interface 28-SSOP