

**MAXREFDES70# BOM RevB**

Designation	Qty	Description
C1-C4, C10, C13, C15, C18, C20, C22	10	0.1uF 10%, 10V, X7R ceramic capacitors (0402) Murata GRM155R71A104K
C5, C6, C7, C8	4	12pF 5%, 50V, C0G ceramic capacitors (0402) Murata GRM1555C1H120J
C9	1	0.1uF 1%, 25V, C0G ceramic capacitor (1206) Kemet C1206C104F3GACTU
C11, C12, C14, C21, C25	5	1uF 10%, 16V, X7R ceramic capacitors (0603) Murata GCM188R71C105K
C16	1	0.01uF 10%, 16V, X7R ceramic capacitor (0402) Murata GRM155R71C103K
C17	1	2.2uF 10%, 10V, X7R ceramic capacitor (0603) Murata GRM188R71A225K
C23, C24	2	1000pF 1%, 50V, C0G ceramic capacitors (0805) Murata GRM2165C1H102F
C29	1	22uF 10%, 10V, X7R ceramic capacitor (1206) Murata GRM31CR71A226K
C30	1	4.7uF 10%, 10V, X7R ceramic capacitor (0805) Murata GRM21BR71A475K
FB1	1	1k ohm@100MHz ferrite bead (0603) TDK MMZ1608S102A
J1	1	2x3 dual-row header (strip, cut to fit) Sullins PEC36DZAN
L1	1	10uH 120mA ferrite bead (0805) TAIYO YUDEN LB2012T100KR
R1	1	1k ohm 0.1% resistor (0805) Panasonic ERA-6YEB102V
R2	1	10M ohm 5% resistor (0603)
R4, R5	2	330 ohm 1% resistors (0805)
SW1	1	SPST normally closed tactile switch C&K KSR223GNCLFG
SW2-SW4	3	SPST normally open tactile switches C&K KSC321JLFS
SW5	1	DPDT sub-miniature slide switch C&K JS202011CQN
U1	1	Time-to-Digital Converter (32 TQFP-EP) Maxim MAX35101EHJ+
U2	1	EFM32 microcontroller (24 QFN) Silicon Labs EFM32ZG110F32-QFN24
U3	1	16x3 LCD Module Electroinc Assembly EA DOGM163L-A
U4	1	Dual SPST analog switch (8 uMAX) Maxim MAX4721EUA+
Y1	1	4MHz 12pF crystal TXC 9C-4.000MAAE-T
Y2	1	32.768kHz 12pF crystal CTS TF322P32K7680
--	1	Spool body, meter case and PCB installation screws Audiowell HZ0002-000
--	1	PT1000 matched pairs (2 matched pieces) Chongqing Wandao Optoelectronic Technology PT1000

--	1	3.6V 4AH Lithium battery EVE Battery ER18505/W
--	1	PC board: MAXREFDES70# High Accuracy Flow/Heat Meter