

Bill of Materials

TI DESIGNS
TID-00008-Hand-to-Hand Body Composition Meter Reference Design with BLE Connectivity

DESIGNATOR	QUANTITY	DESCRIPTION	MANUFACTURER	PART NUMBER	ALTERNATIVE MANUFACTURER	ALTERNATIVE PART NUMBER
+BATT-	1	Header, 2-Pin		No physical connector required, solder directly		
AFE4300PNR	1	IC AFE 16BIT 860SPS 80LQFP	Texas Instrument	AFE4300PNR		
BLE_C28, M_C8	2	CAP CER 2200PF 50V 10% X7R 0603	AVX	06035C222KAT2A		
BLE_C29, C1, C2, C4,	22	CAP CER 0.1UF 25V 10% X7R 0603	AVX	06033C104KAT2A		
C17, C18	2	CAPACITOR,SMT,0603,CERAMIC,4.7uF,6.3V,10%,X5R	TDK Corporation	C1608X5R0J475K/0.80		
C24, C25, C26, C27,	10	CAP CER 1UF 16V 10% X5R 0603	AVX	0603YD105KAT2A		
C32, C34, MSP_C1	3	CAP CER 0.47UF 10V 10% X5R 0603	Kemet	C0603C474K8PACTU		
CR0, CR1, CR2, CR3,	12	Single Channel ESD Protection Device in 0402 Package	Texas Instrument	TPD1E10B09		
D1, D7	2	LED 470NM BLUE CLEAR 0603 SMD	Rohs Semiconductor	SMLE12BC7T86		
D2, D6	2	LED GREEN 0603 SMD	Rohs Semiconductor	SMLE12EC6T		
J9	1	Header, 0.050 Single Male RA	Sullins	GRP061VWCN-RC		
J-1	1	CBL PLUG-OF-NAILS MSP430 LEG TI	Tag-Connect	TC2050-IDC-430		
L1, L2	2	INDUCTOR POWER 3.3UH 1.3A SMD	TDK Corporation	VLF4012AT-3R3M1R3		
MSP_R15, R15, R100,	4	RES 10.0K OHM 1/10W 1% 0603 SMD	VISHAY	CRCW060310K0FKEA		
M_R1, M_R2, M_R8,	4	RES 1.00K OHM 1/10W 1% 0603 SMD	VISHAY	CRCW06031K00FKEA		
M_R6	1	RES 47.0K OHM 1/10W 1% 0603 SMD	VISHAY	CRCW060347K0FKTA		
P1, P2	2	TERMINAL BLOCK 3.5MM 6POS PCB	ON-SHORE TECHNOLOGY	ED555/6DS		
P3	1	TERMINAL BLOCK 3.5MM 4POS PCB	ON-SHORE TECHNOLOGY	ED555/4DS		
P_C15	1	CAP CER 10000PF 16V 5% X7R 0603	AVX	0603YC103JAT2A		
P_C16	1	CAP CER 2.2UF 10V 10% X5R 0603	MURATA	GRM188R61A225KE34D		
P_C17	1	CAP TANT 1UF 10V 20% 0603	AVX	TACL105M010XTA		
P_C18, P_C20	2	CAP CER 10UF 6.3V 20% X5R 0603	Kemet	C0603C106M9PACTU		
P_C19	1	CAP TANT 2.2UF 6.3V 20% 0603	AVX	TACL225M006XTA		
P_C22, P_C23	2	CAP CER 0.033UF 6.3V X7R 0603	AVX	06036C333JAT2A		
P_R12, P_R14	2	RES 10.0K OHM 1/10W 1% 0603 SMD	VISHAY	CRCW060310K0FKEA		
R16, R17	2	RES 3.3K OHM 1/10W 5% 0603 SMD	VISHAY	CRCW06033K30JNEA		
R42, R43, R44, R45,	23	RES 0.0 OHM 1/10W 0603 SMD	VISHAY	CRCW06030000Z0EA		
R58	1	RES 100 OHM 1/10W 5% 0603 SMD	VISHAY	CRCW0603100RJNEA		
R63, R64, R65, R66,	7	RES 10.0M OHM 1/10W 1% 0603 SMD	YAGEO	RC0603FR-0710ML		
R70	1	RES 49.9 OHM 1/10W 1% 0603 SMD	Panasonic	ERJ-3EKF49R9V		
R71	1	RES 499 OHM 1/10W 1% 0603 SMD	VISHAY	CRCW0603499RFKEA		
SW, SW2	2	SWITCH TACTILE SPST-NO 0.02A 15V	Panasonic	EVQ-21505R		
TP1, TP2, TP3, TP4,	19	40 mil round pad		Pads only		
TP11, TP12, TP13,	4	40 mil round pad		Pads only		
U1	1	IC MCU 16BIT 128KB FLASH 64VQFN	Texas Instrument	MSP430F5528IRGCT		
U4	1	500mA, Low Quiescent Current, Ultra-Low Noise, High PSRR Low-Dropout Linear Regulator	Texas Instrument	TPS735285DRV(prefered)/TPS73527DRV		
U5	1	IC PUSH BUTTON ON/OFF CTRLR 8DFN	Linear Technology	LTC2951CDDB-1#TRMPBF		
U7	1	MODULE BLUETOOTH VER4.0 W/ANT	Texas Instrument	BR-LE4.0-S2A		
Y1	1	Crystal, Piezo Ceramic Resonator, 4.000MHz,	muRata	CSTCR4M00G15L99-R0		

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