

Bill of Materials

TI DESIGNS
Part # TIDM-SINGLEPHASEMETER
Literature # TIDR105

DESIGNATOR	QUANTITY	DESCRIPTION	COMPONENT TYPE	Digikey Part Number	ALTERNATIVE MANUFACTURER	ALTERNATIVE PART NUMBER
S1, S2, S3	3	Push button Switch	Through-hole	P8006S-ND		
RS1	1	RS-232 DB9 Header	Through-hole	A32036-ND		
AUX2, AUX3, JP7, JP8	11	2-pin Jumper header	Through-hole	609-3296-ND		
JP1, JP5	2	3-pin Jumper header	Through-hole	609-3296-ND		
SV1, SV2	2	4-pin Jumper header	Through-hole	609-3296-ND		
SV3	1	Do Not Populate	Through-hole	N/A		
LED1	1	Light Emitting Diode	Through-hole	511-1211-ND		
LED2	1	Light Emitting Diode	Through-hole	511-1367-ND		
L1, L2, L3, L4, L5, L6	6	0R	SMD	RMCF0603ZT0R00CT-ND		
JTAG	1	14-pin Connector	Through-hole	MHB14K-ND		
RF1, RF2	2	CONN HEADER 20POS 1.27MM	SMD		Samtec	Samtec: TFM-110-02-SM-D-A-K
R58, R7, R61	1	Do Not Populate	N/A	N/A		
R45, R46, R47, R48, R49, R51, R52, R53,	19	0R	SMD	RMCF0603ZT0R00CT-ND		
R22	1	0R	SMD			
C43	1	0.1uF	SMD	445-1349-1-ND		
C37, C38, C40, C42	13	0.1uF	SMD	311-1366-1-ND		
C31, C32, C33, C34	4	0.047uF	SMD	445-5118-1-ND		
C14, C16	2	470nF	SMD	399-3114-1-ND		
R65	1	1.5k	SMD	RHM1.5KARCT-ND		
R23	1	1.8M	SMD	541-1.8MGCT-ND		
R12, R13, R14, R15, R20, R41, R50	7	1k	SMD	RHM1.0KGCT-ND		
D1, D2, D3, D4, D5, D6, D7, D8	8	Do Not Populate	SMD	N/A		
R62, R63	2	1k	SMD	RHM1.0KARCT-ND		
R57, R59	2	2.2k	SMD	RHM2.2KARCT-ND		
R18	1	3.0k	SMD	RHM3.0KGCT-ND		
C9, C39	2	4.7uF	SMD	445-7451-1-ND		
C1, C3, C6, C11, C17	7	4.7uF	SMD	399-3134-1-ND		
C8, C10	2	4.7uF	SMD	445-1398-1-ND		
R30, R31	2	Do Not Populate	SMD	N/A		
R2	1	10 ohm	SMD	RHM10GCT-ND		
R1, R32, R35	3	10k	SMD	RHM10KGCT-ND		
R64	1	10k	SMD	RHM10.0KAECT-ND		
C44, C45, C41	3	10uF	SMD	399-3685-1-ND		
R9, R10	2	13R	SMD	541-13.0HTR-ND		
C23, C24, C27	3	15nF	SMD	445-2670-1-ND		
IC2	1	Serial EEPROM	PDIP	24LC02B-I/SN-ND		
Q1	1	32.768	Through-hole	300-8341-1-ND		
R36	1	47	SMD	RHM47GCT-ND		
R3	1	47k	SMD	RHM47KGCT-ND		
C19, C20, C21, C22, C25, C26	6	47pF	SMD	445-1277-1-ND		
R27	1	51	SMD	RHM51GCT-ND		
R24	1	59k	SMD	A102297CT-ND		
R60	1	68	SMD	RHM68ACT-ND		
R4, R5, R19	3	100	SMD	RHM100GCT-ND		
R29, R33, R34	3	100k	SMD	A106046CT-ND		
R66	1	220	SMD	RHM220CRCT-ND		
R28	1	316k	SMD	P316KHCT-ND		

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R11, R16, R17	3	330k	SMD	RHM330KHCT-ND		
R25, R26	2	332k	SMD	P332KHCT-ND		
T1, T2	2	BC860B/BC857B	SMD	568-6094-1-ND		
D14, D15, D16, D17	4	LL103A	SMD	LLSD103ADICT-ND		
U2, U3	2	PS8802	SMD	PS8802-1-F3-AXCT-ND		
R6	1	S20K680	Through-hole	495-1417-ND		
D9, D10	2	SMAJ5.0CA	SMD	SMAJ5.0CABCT-ND		
IRDA	1	TFBS4711-TT1	SMD	751-1068-1-ND		
OK1, OK2	2	4-pin Opto Isolator	Through-hole	PS2501-1A-ND		
LCD1	1	TI 160 Segment LCD	Through-hole			
IC1	1	F6733---PZ100	SMD	296-30131-1-ND		
RTH	1	10k Thermistor	SMD	445-2554-1-ND		
C28	1	0.22uF/305VAC	Through-hole	495-4351-ND		
D12	1	1N4007	Through-hole	1N4007-E3/54GICT-ND		
D11	1	1N4757A	Through-hole	1N4754AVSTR-ND		
C30, C35	2	2.2uF	SMD	445-5207-1-ND		
C29	1	220uF	Through-hole	P5598-ND		
R21	1	560	Through-hole	P560W-3TR-ND		
D13	1	DO214BA	SMD	P6SMB150A-E3/52		
L7	1	ELLCTV	SMD	PCD1759CT-ND		
U1	1	TPS5401	SMD	296-28092-1-ND		

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