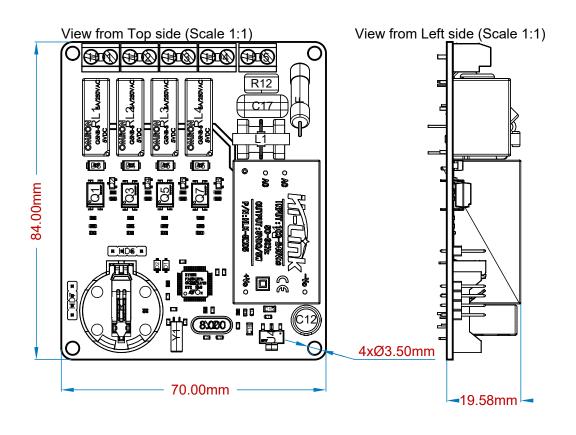
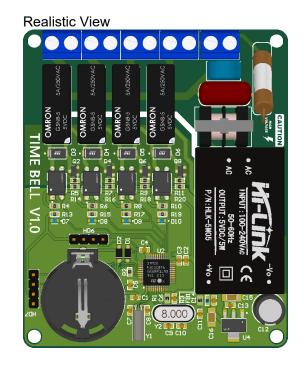


BOARD DIMENTIONS



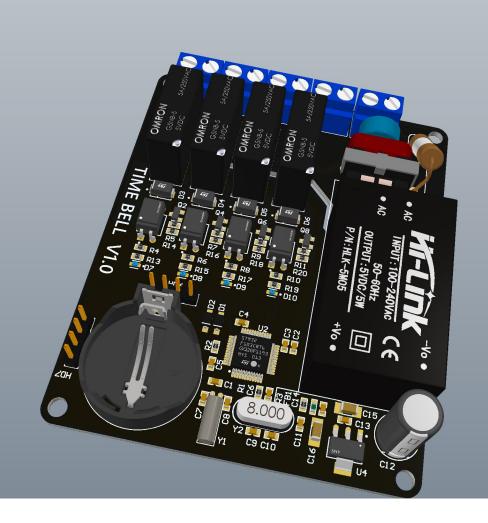


LAYER STACK, MATERIAL, DRILL SPECIFICATIONS



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance			
0	55	0.30mm	Plated				
♦	2	0.45mm	Plated				
¢	2	0.70mm	Plated				
0	2	0.75mm	Plated				
坎	18	0.85mm	Plated				
	12	0.90mm	Plated				
	8	1.02mm	Plated				
X	26	1.10mm	Plated				
Δ	2	1.30mm	Plated				
	127 Total						



Comment	Description	Designator	Footprint	LibRef	Quantity
	Chip Capacitor, 0.1				
100nF	uF, +/- 10%, 50 V, -55 to 125 degC, 0603	C1, C3, C4, C5, C6,	0603 CAP	CMP-2100-03643-1	
TOOTE	(1608 Metric), RoHS,	C11, C13, C14	0003 CAF	CIVIF -2 100-03043-1	٥
	Tape and Reel				
	Chip Capacitor, 0.1				
	uF, +/- 10%, 50 V, -55				
4.7uF	to 125 degC, 0603	C2	0603 CAP	CMP-2100-03643-1	1
	(1608 Metric), RoHS,				
	Tape and Reel				
	Chip Capacitor, 18 pF,				
40.5	+/- 5%, 50 V, -55 to	07 00 00 040	0,00 040	01 #D 0000 0/000 4	
18pF	125 degC, 0603 (1608	C7, C8, C9, C10	0603 CAP	CMP-2000-06099-1	4
	Metric), RoHS, Tape and Reel				
	CAP ALUM 220UF 20%				
220uF	35V RADIAL	C12	FP-ESTG4-MFG	CMP-03015-000001-1	1
10uF	Cap Ceramic 10uF				
	25V X7R 10% Pad		FP-CGA5L-0_3-0_1- IPC_B	CMP-08246-002126-1	_
	SMD 1206 +125°C	C15, C16			2
	Automotive T/R		_		
	Chip Capacitor, 0.1				
	uF, +/- 10%, 400 V, -				
100nF/275V	55 to 125 degC, 0603	C17	CAP 12.5mm Pitch	CMP-2100-03643-1	1
	(1608 Metric), RoHS,				
	Tape and Reel				
CR2032 Holder		CR1	CR2032	CR2032	1
DE010M	Switching Diode, 2-	D1 D2	COD400	ON 4D 4 000 4 000 4 0 000 4 0 000 4	
B5819W	Pin SOD-323, Pb-	D1, D2	SOD123	CMP-1054-00068-1	2
	Free, Tape and Reel DIODE GEN PURP				
1N4007		D3, D4, D5, D6	FP-SMA-MFG	CMP-12188-000002-1	4
	600V 1A SMA		FP-LTST-C191TBKT-		
LTST-C191TBKT	LED BLUE CLEAR CHIP SMD	D7, D8, D9, D10	MFG	CMP-22017-000008-1	4
0.5A	SIVID	F	FUSE 20mm	FUSE	1
0.371	Chip Ferrite Bead for		I OSE ZOITIITI	I OSE	
	Power Lines, 470				
	Ohm, 1000 mA, -55 to				
BLM18PG471SN1D	125 degC, 1.6 x 0.8 x	FB1	0603 Ferrite	CMP-0686-00587-2	1
	0.95 mm SMD, Tape				
	and Reel				
HD2		HD1, HD2, HD3, HD4,	HD2 5.08mm	HD2	5
		HD5			3
HD4		HD6, HD7	HD4x1 2.54mm	HD4x1	2
U9.8		L1	INDUCTOR FILTER	INDUCTOR FILTER	1
			U9.8		
HiLink PSU	ODTOICOLATOD EKV	P1	HLK-5M05	HiLink PSU	
PC817X1J000F	OPTOISOLATOR 5KV TRANS 4DIP	Q1, Q3, Q5, Q7	FP-PC817X1J000F- MFG	CMP-65434-000003-1	4
	General Purpose		IVIFG		
	Transistor, NPN				
BC848CLT1G	Silicon, 3-Pin SOT-23,	Q2, Q4, Q6, Q8	SOT23-3	CMP-1048-00721-1	Δ.
	Pb-Free, Tape and	, 4., 40, 40		10.0 00/21 1	1
	Reel				
0R	1	R1	0603 RES	CMP-2000-03818-1	1
100k		R2	0603 RES	CMP-2000-03818-1	1
					_
10k	<u> </u>	R3, R14, R16, R18, R20	UDU3 KES	CMP-2000-03818-1	5
330		R4, R5, R6, R7, R8, R9,			
		R10, R11, R13, R15,	0603 RES	CMP-2000-03818-1	12
		R17, R19			
MOV-07D471KTR	VARISTOR 470V 1.2KA	R12	FP-MOV-07D471KTR-	CMP-07402-000006-1	1
	DISC 7MM		MFG		·
RELAY	ADM 4.0 1.40.00	RL1, RL2, RL3, RL4	RELAY G5NB OMRON	RELAY 4PIN	4
	ARM Cortex-M3 32-				
STM32F103C8T6	bit MCU, 64 KB Flash,	U2	STM-LQFP48	CMP-0237-00215-3	
	20 KB Internal RAM, 37 I/Os, 48-pin LQFP,	UZ	JIIVI-LUFF40	OIVIE-0237-00213-3	'
	40 to 85 degC, Tray				
	LDO Voltage			CMP-209535-000001-	
AMS1117-3.3	Regulators 1A, 3.3V	U4	FP-AMS1117-IPC_C	1	1
	Crystal, 12.5 pF,			'	
	32.768 KHz, -10 to 60				
		Y1	Crystal 3x8	CMP-2000-05723-1	1
AB26T-32.768KHZ		l			1
AB26T-32.768KHZ	degC, 2-Pin THD,				
AB26T-32.768KHZ	degC, 2-Pin THD, RoHS, Bulk				
AB26T-32.768KHZ	degC, 2-Pin THD, RoHS, Bulk Resistance Weld Thru				
	degC, 2-Pin THD, RoHS, Bulk Resistance Weld Thru Hole Crystal, 8 MHz, -		CRYSTAL HC49	CMP-1749-00002-1	1
AB26T-32.768KHZ FOXSLF/080-20	degC, 2-Pin THD, RoHS, Bulk Resistance Weld Thru	Y2	CRYSTAL HC49	CMP-1749-00002-1	1