

Bill of Materials



Product: **Test 3 DIY Kit**
 SKU JORANT3DIY
 Revision B
 2017-02-17

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Component	Index	RefDes	Q'ty	Case/dim.	Tech.	Marking	Manufacturer	Manufacturer SKU	Supplier	Supplier SKU	Datasheet/drawing
78L05AB voltage regulator, +5 V, 100 mA	3	IC1	1	SOT-89	SMT	8C	Generic	L78L05ABUTR	Mouser	511-L78L05ABU	L78L
INA199A2 current sense amplifier	4	IC2 IC3 IC4	3	SOT-353	SMT	OBH	TI	INA199A2DCKT	Mouser	595-INA199A2DCKT	INA199
MCP6001 op-amp	5	IC5	1	SOT-23	SMT	AA	Microchip	MCP6001T-I/OT	Mouser	579-MCP6001T-I/OT	MCP6001
ATmega328P microcontroller	6	IC6	1	TQFP-32	SMT	MEGA328P AU	Atmel	ATmega328P-AU	Mouser	556-ATMEGA328P-AU	ATmega328P
DMP3099L P-channel enhancement MOSFET	7	T1 T2	2	SOT-23	SMT	D99	Diodes Inc.	DMP3099L-7	Mouser	621-DMP3099L-7	DMP3099L
DMN3404L N-channel enhancement MOSFET	8	T3	1	SOT-23	SMT	34N	Diodes Inc.	DMN3404L-7	Mouser	621-DMN3404L-7	DMN3404L
LL4148 silicon diode	9	D1	1	SOD-80	SMT	/	Generic	LL4148	Mouser	512-LL4148	LL4148
7-segment LED display, 4 digits, common anode, red LED, white, diffused	10	LED1	1	LFD039xUE-102A	THT	LFD039BUE-102A	Wenrun	LFD039BUE-102A	TME	LFD039BUE-102A	LFD039BUE-102A
	11	LED2 LED3 LED4 LED5 LED6 LED7	6	T-1	THT	/	Lite-On	LTW-42NDH8J	TME	LTW-42NDH8J	LTW-42NDH8J
Resistor, thick film, 50 mΩ, 1 %	12	R3 R7 R13	3	RES_0805	SMT	R050	Generic	CRL0805-FW-R050ELF	Mouser	652-CRL0805FWR050ELF	CRL
Resistor, thick film, 680 Ω, 1 %	13	R21 R22 R23 R24 R25 R26 R27 R28	8	RES_0805	SMT	6800	Generic	RC0805FR-07680RL	Mouser	603-RC0805FR-07680RL	RC
Resistor, thick film, 2.2 kΩ, 1 %	14	R2 R6 R10 R11 R16 R17 R18	7	RES_0805	SMT	2201	Generic	RC0805FR-072K2L	Mouser	603-RC0805FR-072K2L	RC
Resistor, thick film, 6.8 kΩ, 1 %	15	R1 R4 R5 R8 R9 R12 R14 R15 R19 R20	10	RES_0805	SMT	6801	Generic	RC0805FR-076K8L	Mouser	603-RC0805FR-076K8L	RC
Inductor, 10 μH	16	L4	1	IND_0805	SMT	/	Generic	LBR2012T100K	Mouser	963-LBR2012T100K	LB
Ferrite chip bead, 600 Ω, 1.5 A	17	L1 L2 L3	3	IND_0805	SMT	/	Generic	MI0805K601R-10	Mouser	875-MI0805K601R-10	MI0805K601R-10
Capacitor, X7R ceramic, 100 nF, 25 V	18	C1 C3 C4 C5 C6 C7 C8 C10	8	CAP_0805	SMT	/	Generic	08055C104KAT2A	Mouser	581-08055C104K	X7R
Capacitor, electrolytic, 10 μF, 25 V, 105 °C, long life	19	C9 C12 C13	3	CAPAE-4.3x4.3h5.4	SMT	10 E HB.	Panasonic	EEE-HBE100UAR	Mouser	667-EEE-HBE100UAR	HB
Tactile switch, 2.8 mm square stem	20	S1 S2	2	Tactile 6 mm (2.8 mm square)	THT	/	TE	1825967-2	Farnell	2468762	1825967
Shrouded header, 2x8 pins, pin spacing 2.54 mm, vertical PCB mount, flash gold finish	21	J1 J2	2	IDC16M	THT	16P	Connfly	DS1013-16SSI1B-B-0	TME	ZL231-16PG	DS1013