

DIGITAL PANEL METER-DPM (7 SEGMENT LED PANEL VOLT METER)

Digital Panel Meter perform digital processing on or conversion and display of voltages, currents, other analog signals, and pulse signals. This project is based on popular ICL 7107 IC, which is analog to digital converter and has been designed to drive 7 segment LED display. The ICL7107 is high performance, low power, 3, 1/3 digit A/D converter. Included are seven segment decoders, display drivers, a reference, and a clock. This DPM project may be used in a wide variety of configurations Full scale reading of +/- 199.9mV (200mV)

Features

Supply 5V DC @ 80mA.

Range 0 to 199.9mV (200mV)

Low Current consumptions

Low input leakage current because external reference

Single supply operation

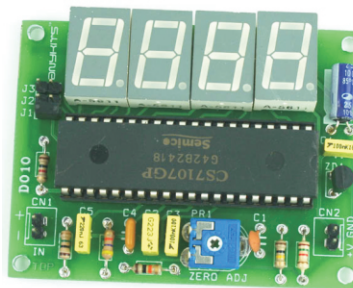
On board Jumpers for range display

Auto Zero and auto polarity within IC

Supply Input CN2 5V DC

Test Voltage CN1 0-200mV

PR1 Preset for reading calibration.



SR.	QTY.	REF.	DESCRIPTION
1	2	CN1,CN2	2 PIN BERG CONNECTOR
2	1	C1	100pF
3	1	C2	22nF
4	2	C3,C6	0.1uF
5	1	C4	0.47uF
6	1	C5	0.22uF
7	1	C7	100uF/25V
8	4	DS1,DS2,DS3,DS4	7 SEGMENT DISPLAY - CA
9	3	J1,J2,J3	2 PIN JUMPER CONNECTOR
10	1	PR1	1K PRESET
11	1	R1	15K
12	1	R2	10K
13	1	R3	1M
14	1	R4	100K
15	1	R5	47K
16	1	R6	1K
17	1	U1	7107
18	1	ZD1	1.2V ZENER (TO-92)
19	1	SOCKET	40 PIN DIP IC SOCKET
20	1	JC02	JUMPER CLOSER

