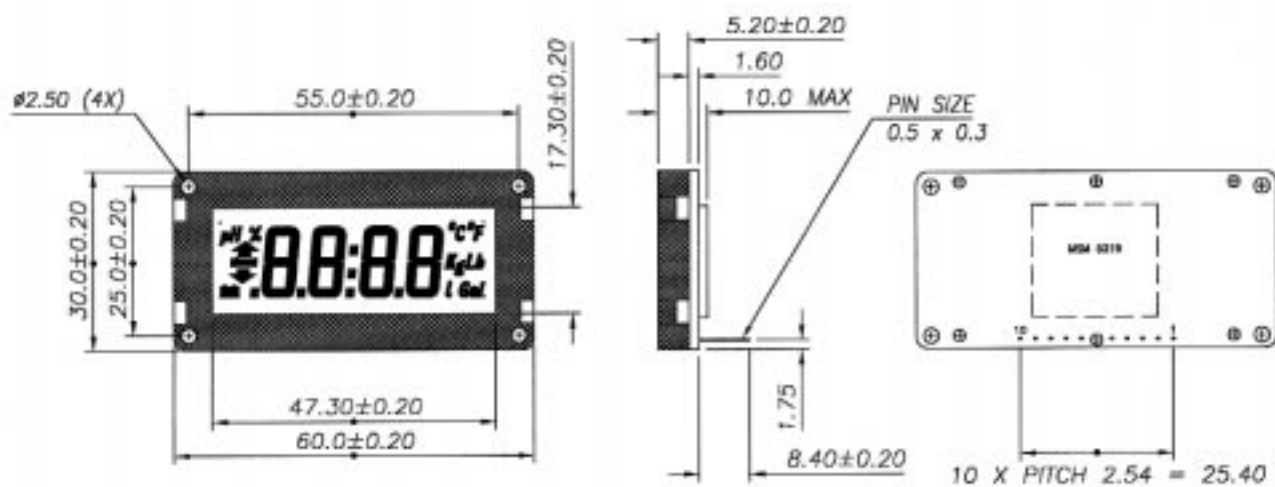


HMR9511-PY

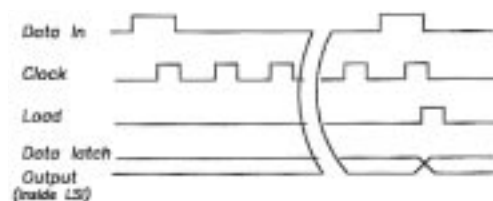
Digital Module



DESCRIPTION

The 4-digit HMR9511-PY module is capable of displaying information under microprocessor control. The modules latch serial input data and generate all required waveforms to drive a LCD display, relieving the microprocessor from this task.

TIMING DIAGRAM



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FEATURES

- 12mm (0.7 inch) character height.
- 4-digit liquid crystal display with 12 annunciators
- Low power CMOS circuitry
- Latched serial data input
- Interfaces easily with microprocessor
- Pin array for easy insertion
- Optional backlighting
- Optional mounting bezel

OPERATING SPECIFICATIONS

Operating Temperature.....0°C to +50°C
Storage Temperature....40°C to +70°C
Operating Relative Humidity....90% Max.

ELECTRICAL CHARACTERISTICS (Ta = +25°C, VDD = 5V)

CHARACTERISTICS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Supply Voltage	VDD		4.5	5	6.5	V
Static Current Consumption	IDD1		-	140	200	μA
Active Current Consumption	IDD2	No Load When Rosc=150KΩ Cosc=0.015μF	-	130	1000	μA
High Leakage Input Current	IIH	Input Voltage =5.0V	-	-	1	μA
Low leakage Input Current	ILL	Input Voltage =0V	-	-	-1	μA
Input High Voltage	VIH		3.6	-	-	V
Input Low Voltage	VIL		-	-	1	V
Output High Voltage	VOH	Output Current 40μA	4.2	-	-	V
Output Low Voltage	VOL	Output Current 1.6mA	-	-	0.4	V
Clock Pulse Width	tw0		0.5	-	-	μS
Max. Clock Pulse Frequency	f0MAX	tw0>0.5μA	1	-	-	MHz
Input Signal Rising Time	tr0		-	-	5	μs
Falling Time	tf0		-	-	-	-
Current Consumption	I LAMP	4 LEDs, VDD=5.0V	-	75	100	mA

