



DESCRIPTION

PT6880 is an OLED Driver/Controller IC utilizing CMOS Technology specially designed to display alphanumeric and Japanese kana characters as well as symbols and graphics. It can interface with either 4-bit or 8-bit Microprocessor and display up to one 8-character line or two 8-character lines.

Display RAM, Character Generator, OLED Driver as well as a wide range of instruction functions such as Display Clear, Cursor Home, Display ON/OFF, Cursor ON/OFF, Display Character Blink, Cursor Shift, Display Shift are all incorporated into a single chip having the highest performance and reliability. Pin assignments and application circuit are optimized for easy PCB layout and cost saving advantages.

FEATURES

- CMOS technology
- Low power consumption
- 4-bit or 8-Bit MPU interface
- High speed MPU interface: 2MHz (VDD=5V)
- 80 x 8-bit display RAM (80 characters max.)
- Auto reset function
- 5 x 8 and 5 x 10 dot matrix
- Built-in oscillator with external resistors
- Programmable duty cycle:
 - 1/8 duty: (1 display line, 5 x 8 dots with cursor)
 - 1/11 duty: (1 display line, 5 x 10 dots with cursor)
 - 1/16 duty: (2 display lines, 5 x 8 dots with cursor)
- 9920-bits character generator ROM (CGROM)
 - 208 character fonts (5 x 8 dot matrix)
 - 32 character fonts (5 x 10 dot matrix)
- 64 x 8-bits character generator RAM (CGRAM)
 - 8 character fonts (5 x 8 dot matrix)
 - 4 character fonts (5 x 10 dot matrix)
- 16 common x 40 segment OLED drivers
- Available in C.O.B. or 100 Pins LQFP package

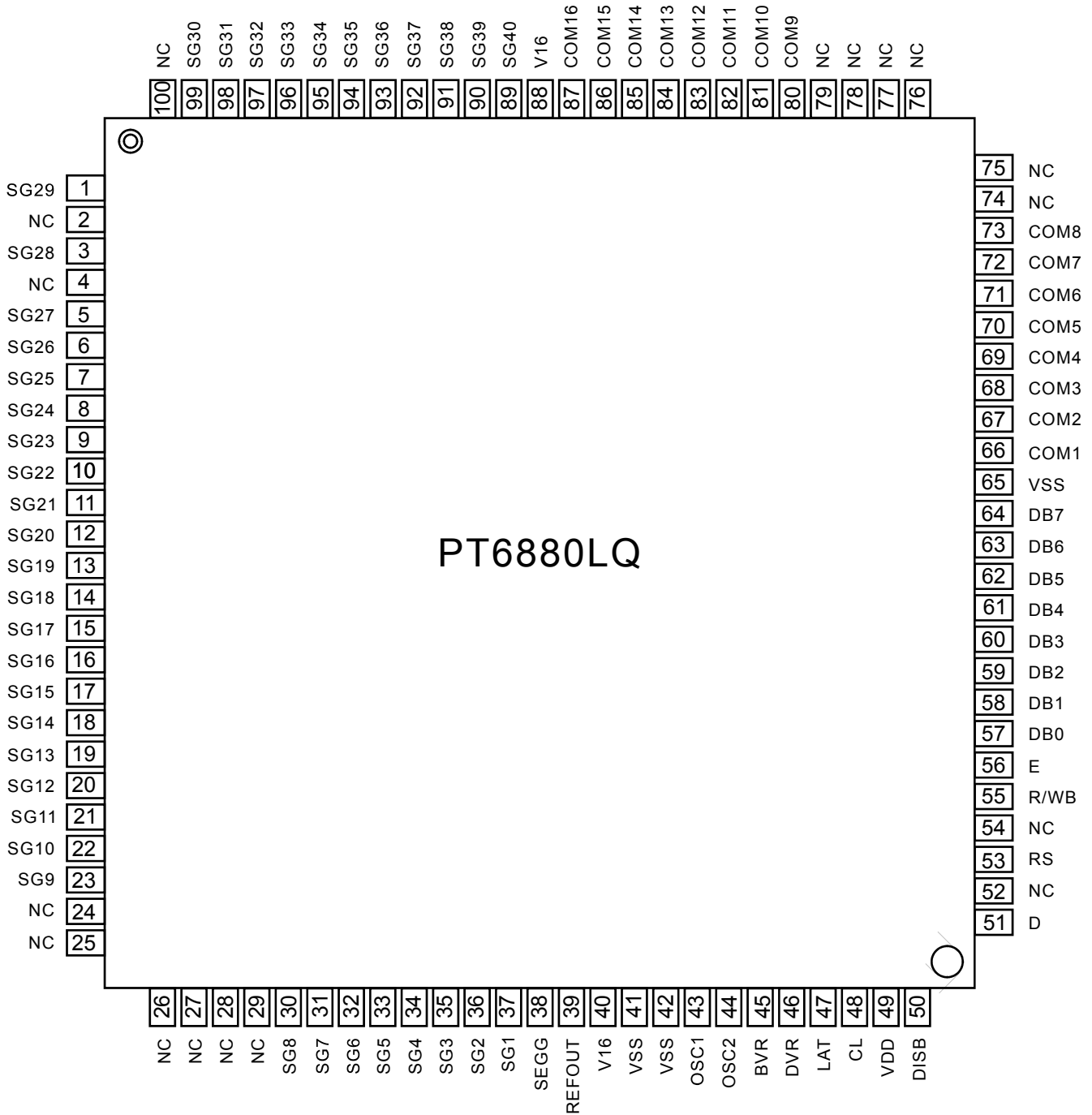
APPLICATIONS

- Cellular phone
- Data bank/Organizer
- Electronic dictionary/Translator
- Information appliance
- P.D.A.
- P.O.S.
- Car audio
- Electronic equipment with OLED display



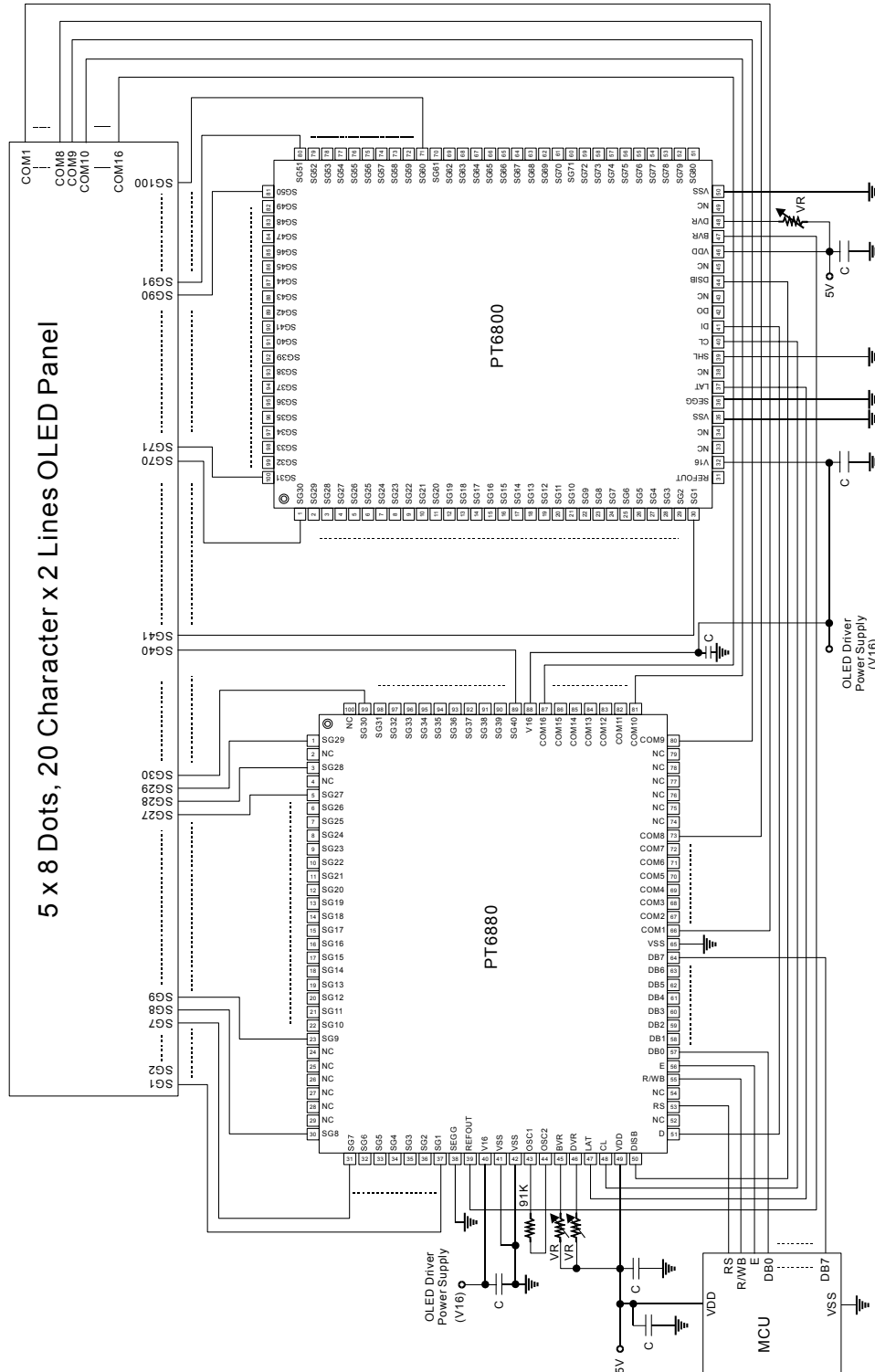
PIN CONFIGURATION

100 PINS, LQFP





APPLICATION CIRCUIT



Note: VR= 100KΩ, C=0.1μF



ORDER INFORMATION

| Order Part Number | Package Type | Top Code |
|-------------------|----------------|---------------|
| PT6880-001-H | COB | PT6880-001-H |
| PT6880-003-H | COB | PT6880-003-H |
| PT6880-004-H | COB | PT6880-004-H |
| PT6880-LQ-001 (L) | 100 Pins, LQFP | PT6880-LQ-001 |
| PT6880-LQ-003 (L) | 100 Pins, LQFP | PT6880-LQ-003 |
| PT6880-LQ-004 (L) | 100 Pins, LQFP | PT6880-LQ-004 |

Notes:

1. (L), (C) or (S) = Lead Free.
2. The Lead Free mark is put in front of the date code.