

# Bluetooth® Module WML-C40 Class 1

## OUTLINE

This is a wireless communications module that conforms to Bluetooth® Ver.2.0+EDR. Applications include laptops, PC peripheral devices, PDA, access points, etc.

\*The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc.



## FEATURES

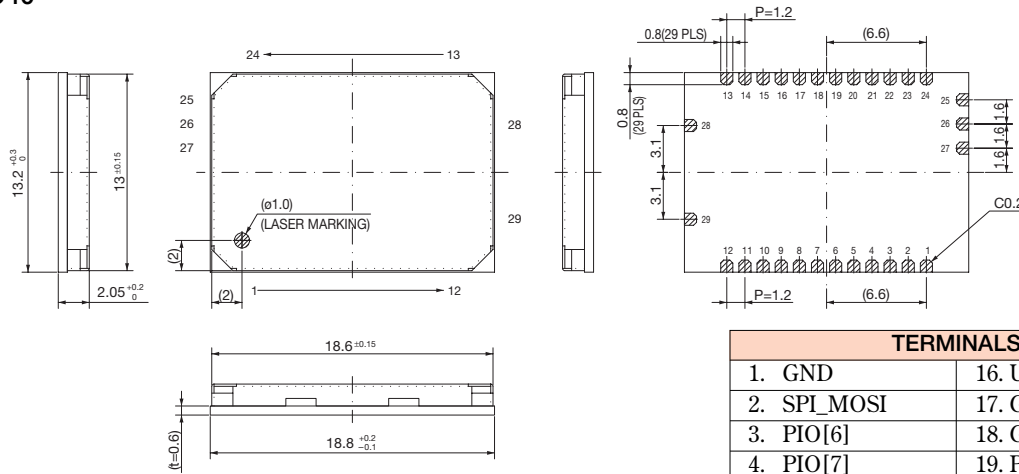
1. Reducing the size and thickness greatly due to the high-density surface mounting technology.
2. Long-distance communication due to its high sensitivity.
3. UART, PCM and USB interfaces allow realization of a wide variety of applications.
4. 8Mbits of Flash-ROM allow realization of a wide variety of applications.
5. Conforms to FCC, CE and the EMI standard of each country.
6. Conforming to Bluetooth® Class1.
7. Operating temperature range : - 40~+70°C.

## SPECIFICATIONS

| Item                  | Specifications                  |
|-----------------------|---------------------------------|
| Frequency             | 2402 ~ 2480MHz                  |
| Modulation            | FHSS/GFSK, $\pi/4$ DPSK, 8 DPSK |
| Channel intervals     | 1MHz                            |
| Number of channels    | 79CH                            |
| Power supply voltage  | 3.3V(3.2~3.4V)                  |
| Current consumption   | 90mA typ.                       |
| Transmission rate     | 2178kbps max.                   |
| Receive sensitivity   | -82dBm typ.                     |
| Output level (Class1) | +20dBm max.                     |
| Dimensions            | 13.2(W)×18.8(D)×2.05(H)mm       |

# DIMENSIONS

● WML-C40



| TERMINALS    |              |
|--------------|--------------|
| 1. GND       | 16. UART_CTS |
| 2. SPI_MOSI  | 17. GND      |
| 3. PIO[6]    | 18. GND      |
| 4. PIO[7]    | 19. PIO[2]   |
| 5. RESET     | 20. PIO[3]   |
| 6. SPI_CLK   | 21. PIO[5]   |
| 7. PCM_CLK   | 22. PIO[4]   |
| 8. PCM_SYNC  | 23. SPI_CSB  |
| 9. PCM_IN    | 24. SPI_MISO |
| 10. PCM_OUT  | 25. GND      |
| 11. VDD      | 26. ANT      |
| 12. GND      | 27. GND      |
| 13. UART_RX  | 28. GND      |
| 14. UART_TX  | 29. GND      |
| 15. UART_RTS |              |

Unit : mm

\*For the technical details of the products in this page, please refer to RF / NETWORK Sales Div. Phone: 042-310-5691.