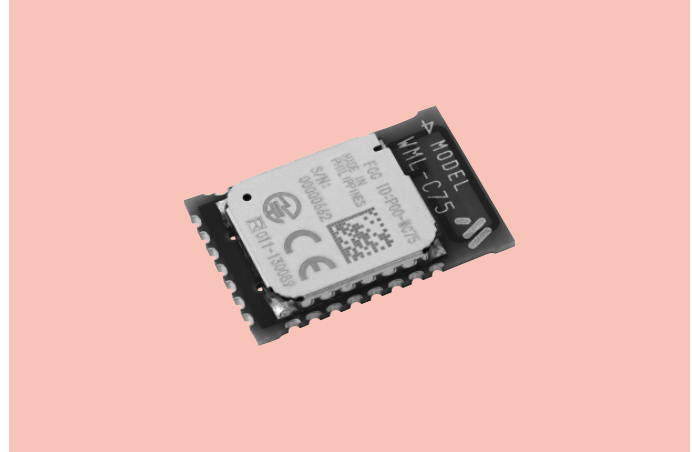**MITSUMI**

Bluetooth® Low Energy Module
WML-C75

OUTLINE

This product is a small-sized and power-saving Bluetooth® Ver. 4.0 (Single Mode) module.
It is equipped with an antenna, and can install various types of profiles.

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

FEATURES

1. Conforming to the Bluetooth® Ver. 4.0 (Single Mode) specifications.
2. TELEC certification (FCC and CE certifications also). End Product certification of Bluetooth SIG.
3. We can provide sample products on which a Mitsumi's original transfer profile of general-purpose data as well as a healthcare profile for Bluetooth SIG are installed.
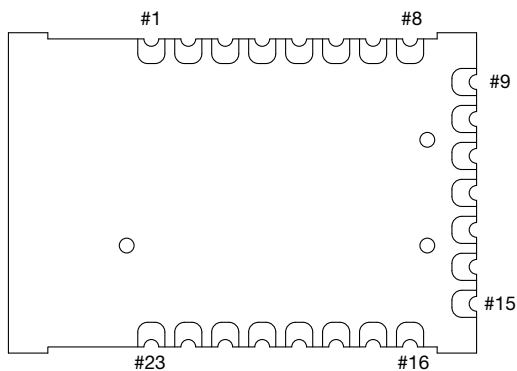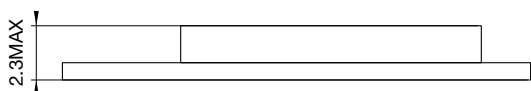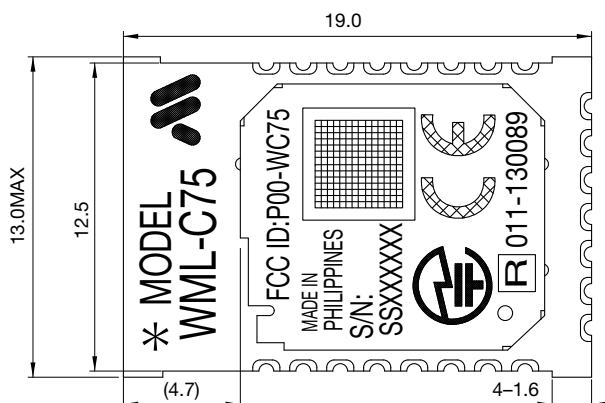
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SPECIFICATIONS

Item	Specifications
Bluetooth specification	Conforming to Bluetooth Core Spec. Ver4.0Low Energy (Single Mode) specification
Interface	UART, SPI, I²C, GPIO, AIO
Frequency	2,402~2,480MHz(World Wide)
Interval of RF Channels	2MHz
Number of RF Channels	40ch
Bit Rate	1Mbps
Transmission Output	0dBm
Reception Sensitivity	−84dBm
Supply Voltage	1.8~3.6V
Current Consumption	TX : 15mA, RX : 17mA, Sleep : 0.6μA
Operating Temp Range	−30~+85˚C
Dimensions	19.0(W)×13.0(D)×2.3(H) mm
Connection	SMD type (Side Through Hole)

*Specifications subject to change without notice for improvements.

DIMENSIONS

TERMINALS	
① GND	⑬ SPI_MOSI/PIO[7]
② GND	⑭ SPI_MISO/PIO[8]
③ AIO[2]	⑮ PIO[9]
④ AIO[1]	⑯ PIO[10]
⑤ AIO[0]	⑰ SPI_PIO# SEL
⑥ UART_RX/PIO[1]	⑱ PIO[11]
⑦ UART_TX/PIO[0]	⑲ N.C.
⑧ VDD	⑳ GND
⑨ PIO[3]	㉑ WAKE
⑩ PIO[4]	㉒ GND
⑪ SPI_CLK/PIO[5]	㉓ GND
⑫ SPI_CSB/PIO[6]	

Unit : mm