



muRata 2JV Communication Module User Manual

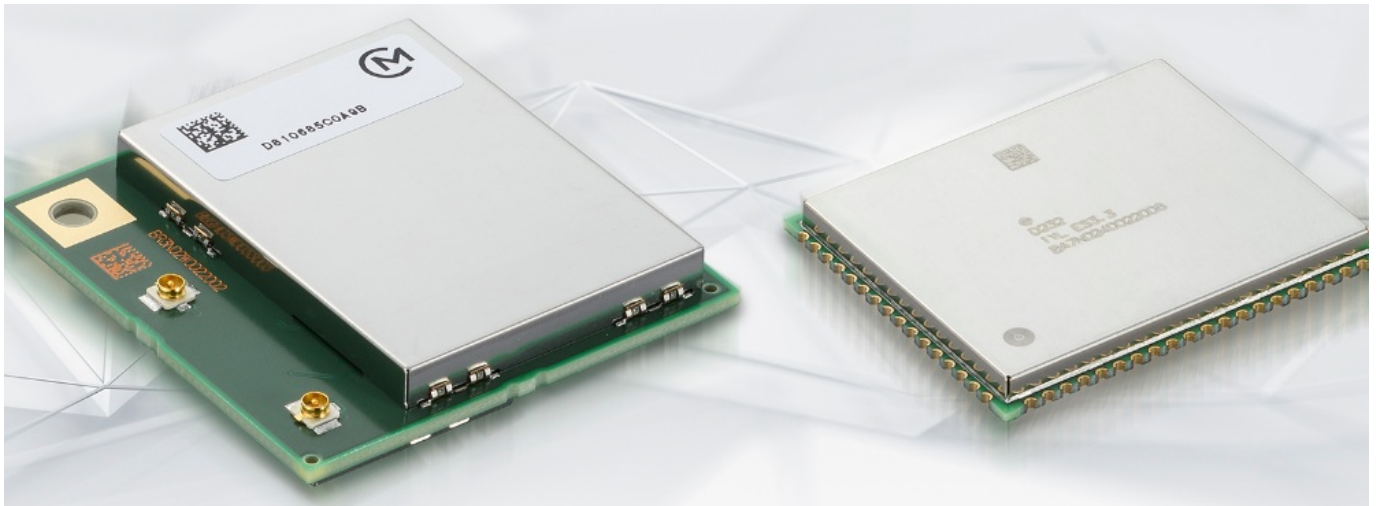
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muRata 2JV CommunicationModule



Specifications

- Model Name: 2JV
- FCC ID: VPYLBCA1ZZ2DV
- Peak Gain(dBi): +1.0 (Type2JV_Slim), 0 (Type2JV_Tandem)
- Type: Monopole
- Connector: Trace
- Vendor: Murata

Compliance and Installation

This Bluetooth Low Energy Module complies with part 15 of the FCC Rules. When installing this device, ensure the following conditions:

- This device must not cause harmful interference.
- This device must accept any interference received.
- Changes or modifications not approved by the responsible party may void the user's authority to operate the equipment.
- The transmitter should not be co-located with any other antenna] or transmitter.

Antenna Information

The device comes with two antenna types: Type2JV_Slim and Type2JV_Tandem, both provided by Murata.

Ensure proper installation of the antenna with the correct peak gain and connector type.

Radiation Exposure Guidelines:

For safety reasons, when installing and operating the device, keep the radiator at least 20cm away from a person's body.

FAQ

Q: What should I do if I encounter interference issues with the device?

A: Ensure that the device is not causing harmful interference and follow the FCC guidelines for accepting interference. You may also consider repositioning the device to minimize interference.

User Manual

This device is the bluetooth low energy module.

Model Name: 2JV
FCC ID: VPYLBCA1ZZ2DV

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC CAUTION Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This device complies with below part 15 of the FCC Rules. Part 15 Subpart C

Since there is no space which indicates FCC ID on this module, FCC ID is indicated in a manual. If the FCC ID is not visible when the module is installed inside another device, then the module is installed must also display a label referring to the enclosed module.

The modular transmitter is only FCC authorized for the specific rule parts (i.e., FCC transmitter rules) listed on the grant, and the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification.

The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

- Antenna list.

Part number	Vendor	Peak Gain(dBi)	Type	Connector
Type2JV_Slim	Murata	+1.0	Monopole	Trace
Type2JV_Tandem	Murata	0	Monopole	Trace

- The following information must be indicated on the host device of this module.

Contains Transmitter Module FCC ID VPYLBCA1ZZ2DV

Contains FCC ID VPYLBCA1ZZ2DV

FCC Compliance Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

*If it is difficult to describe this statement on the host device due to the size, please describe in the user's manual and also either describe on the device packaging or on a removable label attached to the device.

- The following statements must be described on the user manual of the host device of this module;

FCC CAUTION

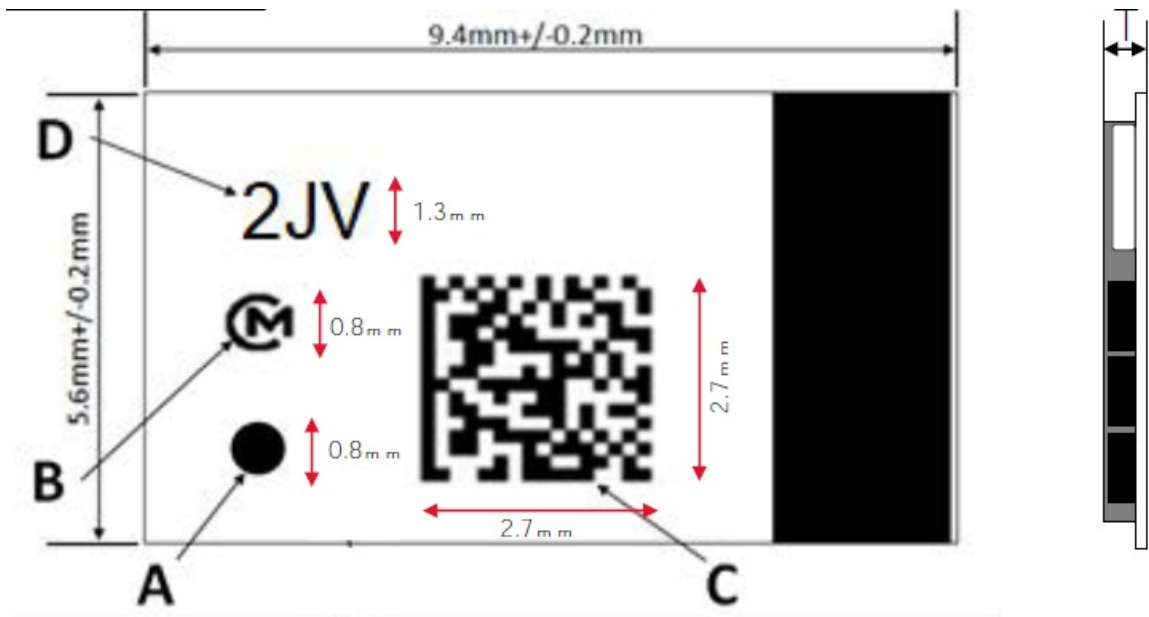
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines as this equipment has very low levels of RF energy. ※

But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person’s body.

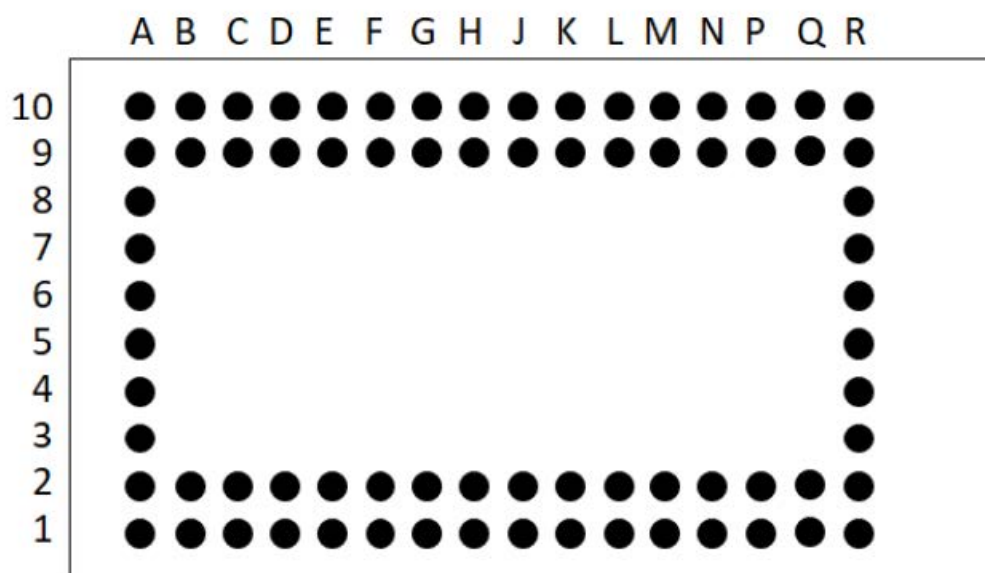
Dimensions, Marking



marking	Meaning
A	Pin 1 Marking
B	Murata Logo
C	2D Code
D	Module Type

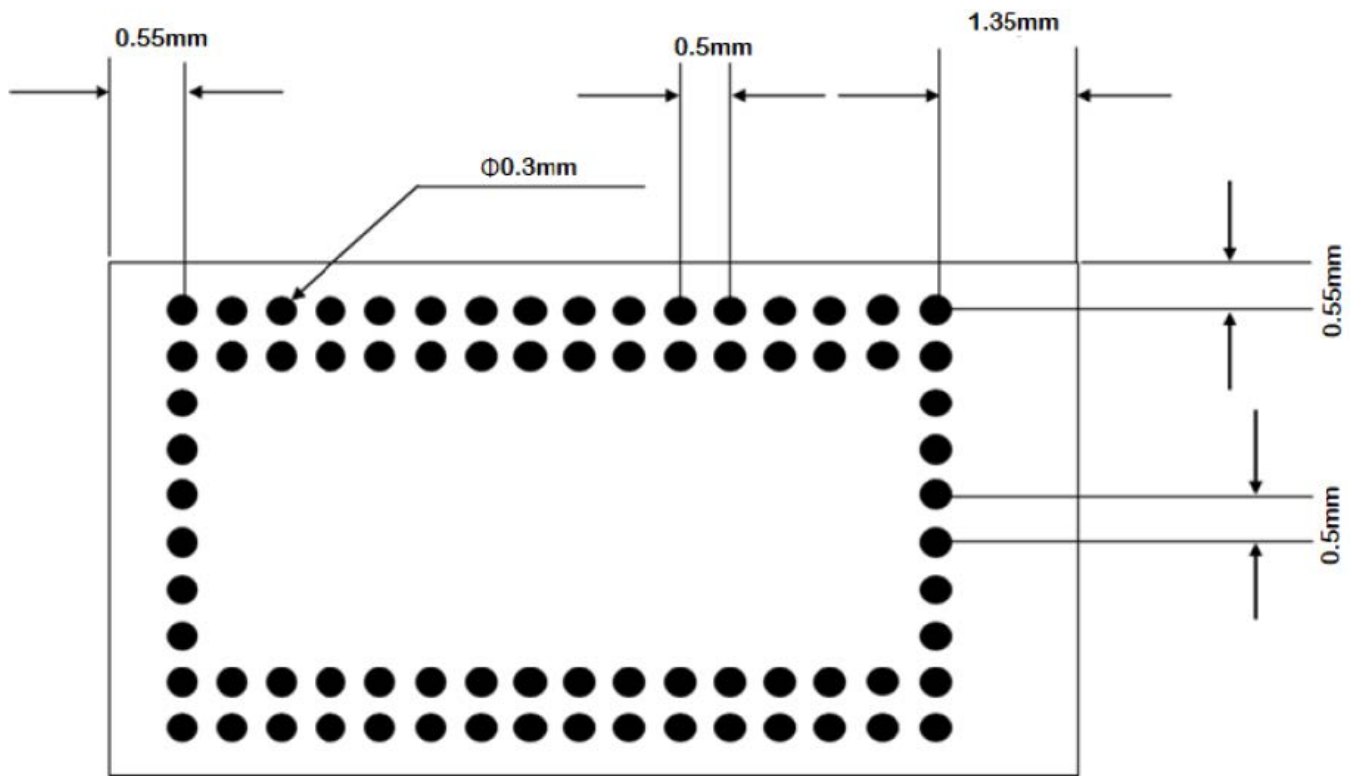
Mark	dimensions	Mark	dimensions	Mark	dimensions
L	5.6±0.25	W	9.4±0.25	T	2.2max

Terminal Configurations (Top vew)



No	Terminal Name	No	Terminal Name	No	Terminal Name	No	Terminal Name	No	Terminal Name
A-1	GND	C-9	P1_15	G-9	P1_04	L-9	P0_31	Q-9	GND
A-2	LED_6_P0_28	C-10	GND	G-10	P1_11	L-10	P0_11_M33_SWCLK	Q-10	ANT_OUT
A-3	LED_4_P0_19	D-1	P1_13_GPAD_C_4	H-1	P1_12_GPADC_5	M-1	P0_09_UART_BOOT_TX	R-1	GND
A-4	LED_2_P0_21	D-2	P1_20	H-2	P1_02	M-2	P0_26	R-2	GND
A-5	LED_1_P0_24	D-9	P1_14	H-9	P1_04	M-9	P0_12_CMACE_SWDIO	R-3	GND
A-6	LED_5_P0_29	D-10	LX	H-10	P0_02	M-10	P0_10_M33_SWDIO	R-4	GND
A-7	LED_3_P0_20	E-1	P1_19_GPAD_C_7	J-1	GND	N-1	P0_16	R-5	GND
A-8	LED_0_P0_13	E-2	P1_22	J-2	P1_06	N-2	P0_07	R-6	GND
A-9	GND	E-9	P1_16	J-9	P0_01	N-9	GND	R-7	GND
A-10	GND	E-10	LY	J-10	P0_00	N-10	GND	R-8	GND
B-1	USBP_P0_14	F-1	P1_09_GPAD_C_7	K-1	P0_08_UART_BOOT_RX	P-1	P0_06	R-9	GND
B-2	LED_7_P0_27	F-2	P1_10	K-2	P1_00	P-2	P0_17	R-10	GND
B-9	GND	F-9	P0_30	K-9	P1_03	P-9	GND		
B-10	VBAT	F-10	P1_17	K-10	P1_05	P-10	ANT_IN		
C-1	USBM_P0_15	G-1	P1_18_GPAD_C_6	L-1	P0_25_GPADC_1	Q-1	n		
C-2	P1_21	G-2	P1_07	L-2	P1_01	Q-2	P0_18		

Land Pattern TOP View (Recommended)



Operating condition

1.

Parameter		Min	Typ	Max	Unit
Operating Temperature Range* ¹		-30	—	+85	deg.C
Supply Voltage	VBAT	2.4	3.3	4.75	V
	VBAT for OTP programming* ²	2.4	3.3	4.75	V
	VBAT for OTP reading	2.4	3.3	4.75	V

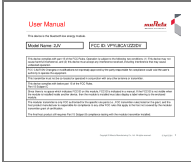
Please keep derating / margin as much as possible at extreme temperature.

2. Required temperature for programming is between -20°C and 70°C

*The output level can be varied by changing the value of the power index within the scope of the application.
(power setting: -18, -12, -8, -6, -3, -2, -1, 0, 1.5, 2, 3, 4, 4.5, 5dBm)

Recommended pattern for antenna part

Slim antenna recommended pattern (green) between these terminals as follow.



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2JV Communication Module, 2JV, Communication Module, Module

References

- [User Manual](#)

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