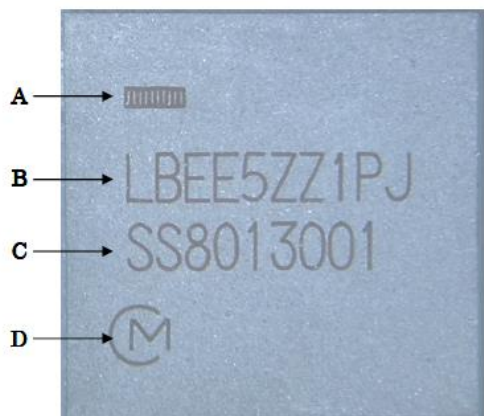


Installation Manual

Application model part number

Basically, we apply for “1PJ” in each country.

Label

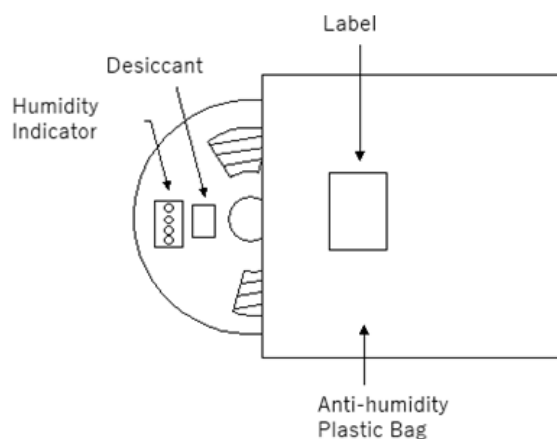


Marking	Meaning
A	Pin 1 Marking
B	Factory Control Number
C	Inspection Number
D	Murata Logo

Since there is no space to describe the notational requirements of each country, we are applying for the notational requirements to be posted in the manual or package.

Package Label

PACKAGE (Humidity proof Packing)



Package label display example

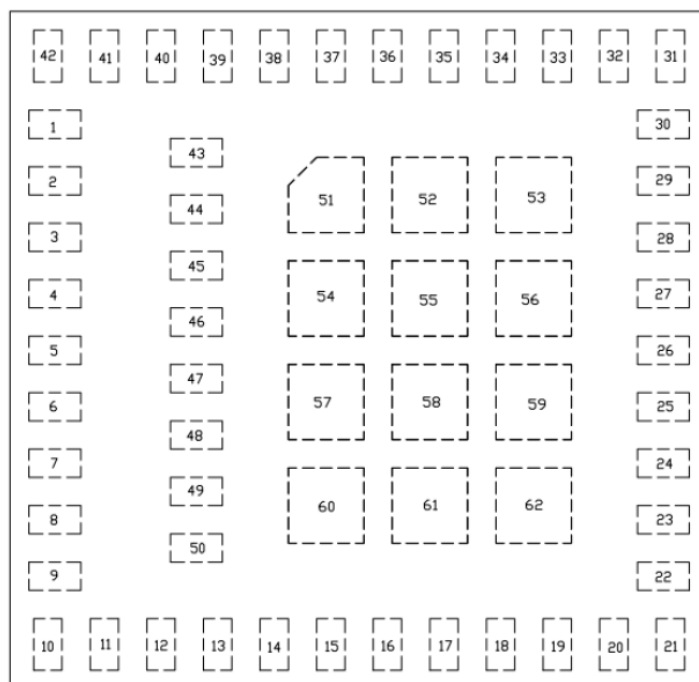


*This label is an example.

The above label is attached on the anti-humidity Plastic Bag

Pin Layout

Top View



Pin No.	Terminal Name	Pin No.	Terminal Name	Pin No.	Terminal Name
1	GND	21	GND	41	VDDIO_3P3
2	VBUCK_GND_PM	22	2G_WIFI/BT_RF_IN	42	VDDIO_AO
3	PWM_PM	23	GND	43	GND
4	VDD11_PM	24	ANT	44	LTE_UART_RXD
5	GND	25	GND	45	LTE_UART_TXD
6	SDIO_DATA3	26	3D_FRAME_SYNC	46	CLK_REQ
7	SDIO_DATA2	27	HCI_UART_RXD	47	DBG_UART_TXD
8	SDIO_DATA1	28	HCI_UART_TXD	48	DBG_UART_RXD
9	SDIO_DATA0	29	HCI_UART_RTS	49	QOW
10	SDIO_CMD	30	HCI_UART_CTS	50~62	GND
11	SDIO_CLK	31	PCM_CLK	—	—
12	VDDIO_SDIO	32	PCM_SYNC	—	—
13	SDIO_INTERRUPT_L	33	PCM_IN	—	—
14	GND	34	PCM_OUT	—	—
15	32KHz_CLK_IN	35	GND	—	—
16	VDDIO_GPIO2	36	VDDIO_XTAL	—	—
17	HCI_UART_WAKEHOST	37	VDDIO_GPIO1	—	—
18	WLAN_RF_KILL_L	38	GND	—	—
19	GND	39	WLAN_EN	—	—
20	2G_WIFI/BT_RF_OUT	40	BT_EN	—	—

Supply Voltage

Type1VY PIN Name	Min.	Typ.	Max.	unit
VDD_3P3	3.135	3.3	3.465	V
VDDIO_SDIO	1.71	1.8 or 3.3	3.46	V
VDDIO_AO				
VDDIO_XATL				
VDDIO_GPIO1				
VDDIO_GPIO2				

*Only VDD_3P3 influence the RF characteristic.

Antenna

Please perform the antenna design that followed the specifications of the antenna.

About the signal line between an antenna and a module

It is a 50-ohm line design.

Fine tuning of return loss etc. can be performed using a matching network.

However, it is required to check "Class1 change" and "Class2 change" which the authorities define then.

The concrete contents of a check are the following three points.

- 1) It is the same type as the antenna type of antenna specifications.
- 2) An antenna gain is lower than a gain given in antenna specifications.
- 3) The emission level is not getting worse.

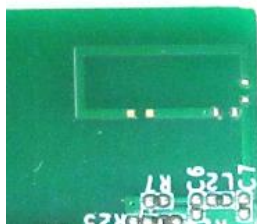
Item	Antenna
Antenna type	Antenna-1PJ-MC501: Monopole antenna +1.8dBi@2.400-2.484 GHz +2.0 dBi@5150-5850 GHz
	DVLD1152ZA: Monopole antenna +1.6dBi@2.400-2.484 GHz

* When using a DVLD1152ZA antenna, it is necessary to disable BT (BR/EDR)/WLAN-5GHz in the SW of the host device.

Installation Manual

Antenna Appearance and size

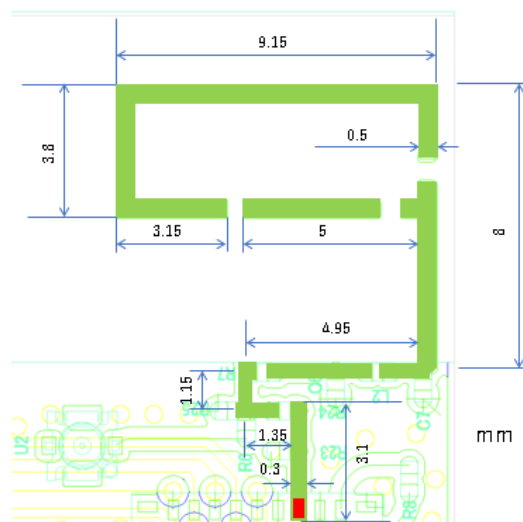
1. Antenna-1PJ-MC501



< surface >



< back >



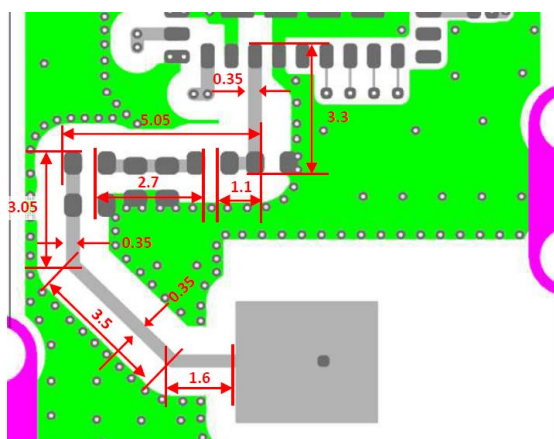
2. DVLD1152ZA



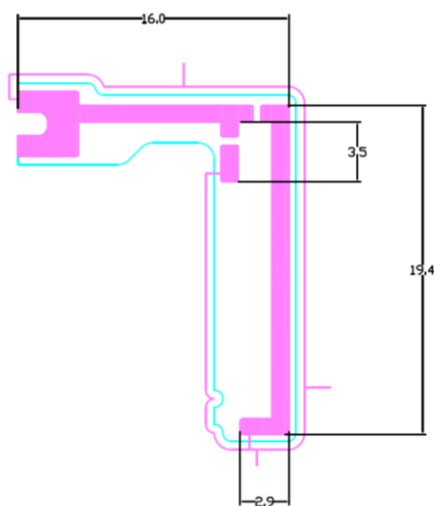
< surface >



< back >



< Trace line >



< Antenna pattern >