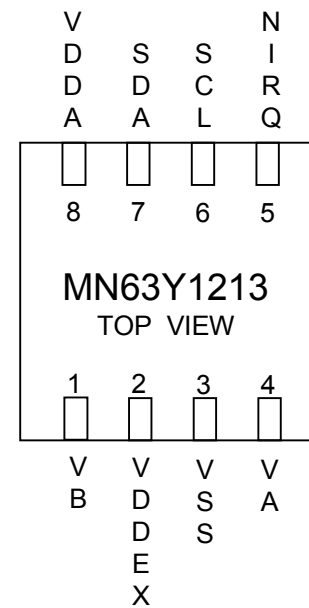
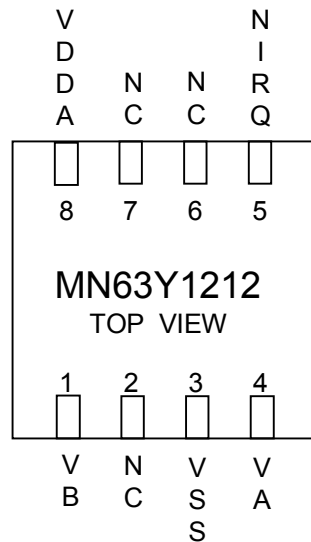


**Evaluation board circuit diagram
and implementation
MN63Y1212/1213**

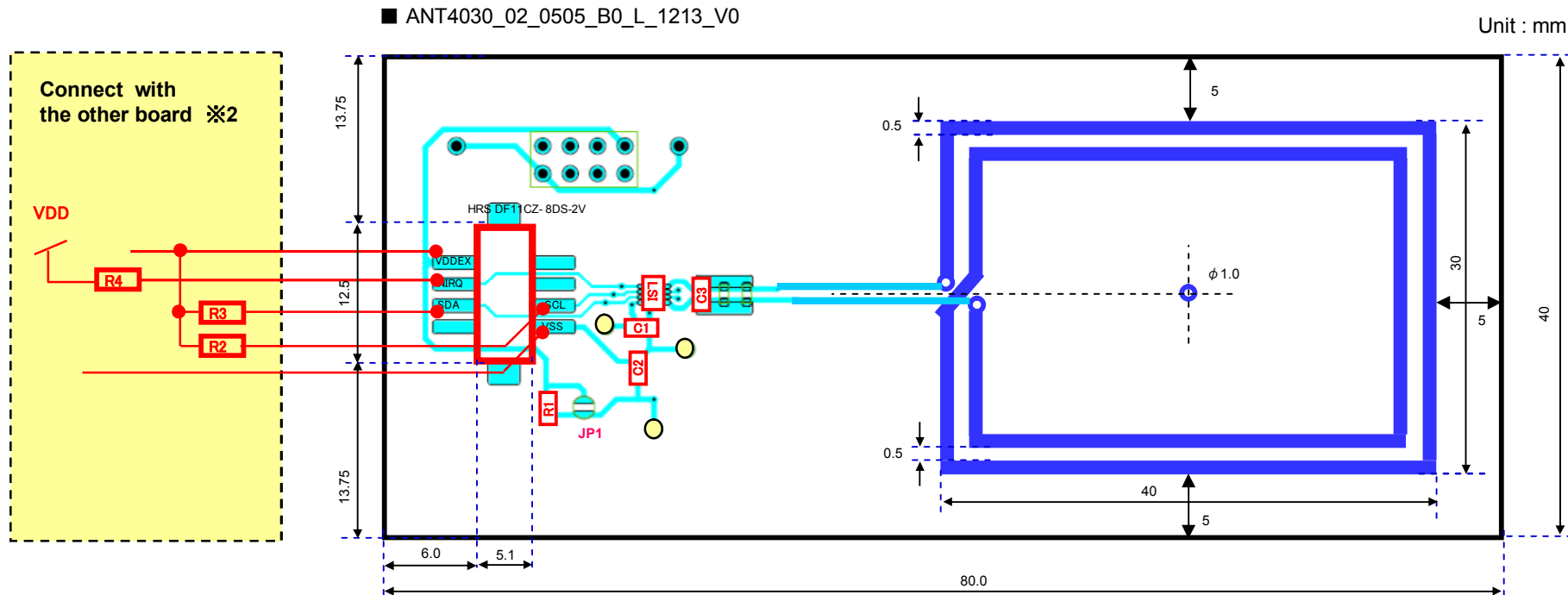
Ver. 1.0

Sep.5th,2013

Semiconductor Business Group
Industrial Devices Company
Panasonic Corporation



Pin No.	Name		Input/Output	IO type	Function
	MN63Y1212	MN63Y1213			
1	VB	VB	I/O	---	Coil terminal
2	N.C.	VDDEX	---	--- / Power	MN63Y1212: Open or Connect to Ground MN63Y1213: External Power Supply
3	VSS	VSS	---	GND	Ground
4	VA	VA	I/O	---	Coil terminal
5	NIRQ	NIRQ	Output	Open Drain	USE : Pull up to VDD NOT USE : Open or Connect to Ground (same as Pin No.2)
6	N.C.	SCL	--- / Input	--- / Open Drain	MN63Y1212: Open or Connect to Ground (same as Pin No.2) MN63Y1213: I2C Clock input
7	N.C.	SDA	--- / I/O	--- / Open Drain	MN63Y1212: Open or Connect to Ground (same as Pin No.2) MN63Y1213: I2C Data input/output
8	VDDA	VDDA	---	Power	Internal analog power supply (Connect a capacitor between this pin and VSS shortest as possible.)

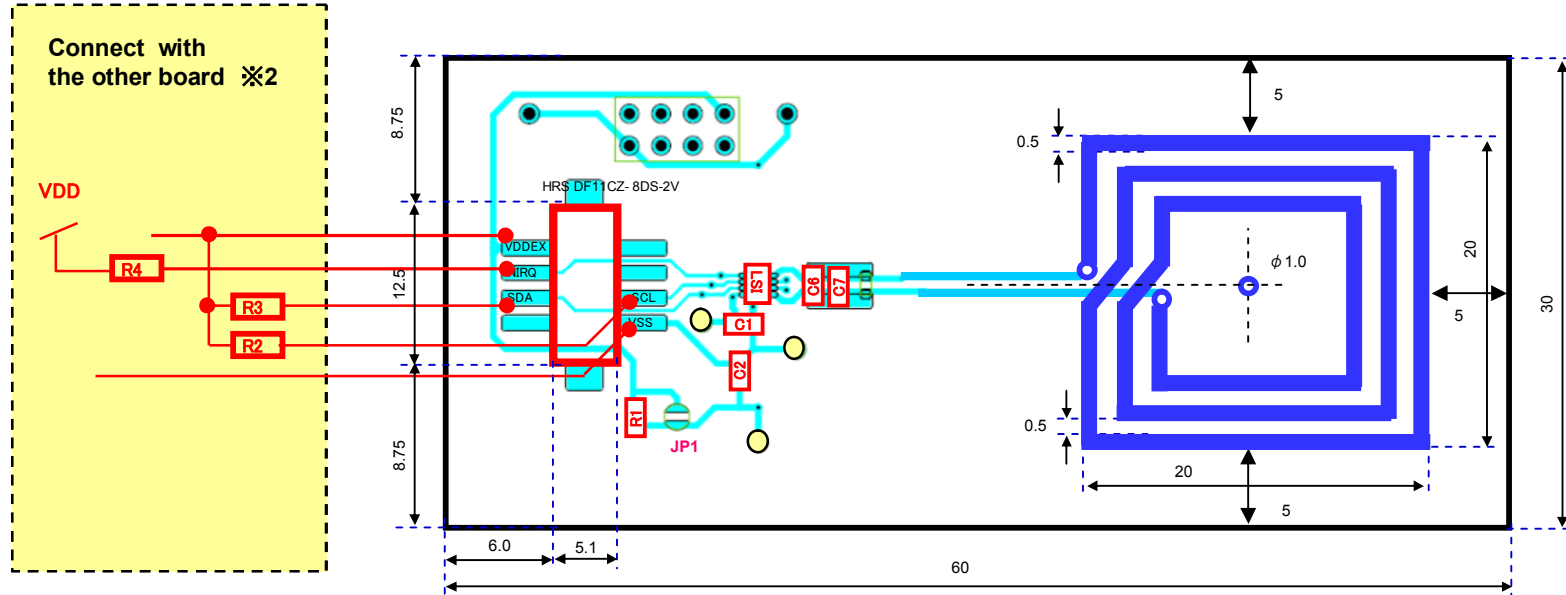


- ※ Substrate size may differ from the substrate which exists to a visitor.
- ※ I connect pulling up resistance (R,R2,R3) to the microcomputer board of our offer.

External parts	Recommended Value	Detail explanation
R2,R3	3.3k Ω	These are pull up resistor for I2C signal lines. Please choose the value considering data speed, parasitic capacitance of signal lines, and current drive performance. In our NFC tag board "ANT4030_02_0505_B0_L," it is not implemented.
R4	3.3k Ω	This is pull up resistor for interrupt signal lines. Please choose the value considering data speed, parasitic capacitance of signal lines, and current drive performance. In our NFC tag board "ANT4030_02_0505_B0_L," it is not implemented.
C1、C2	2.2 μ F	It is a fixed value at the capacity between the power supply for operation stabilization of the tag LSI. C2 is connected to VDDD, and C3 is connected to VDDA and C4 is connected to VDDEX.
R1	200 Ω	Please set 200 ohm when use VDEEX between 2.5 to 3.6 V (Default value) Please set 0 ohm when use VDEEX between 1.7V to 2.5V (Short JP1)

■ ANT2020_02_0505_B0_L_1213_V0

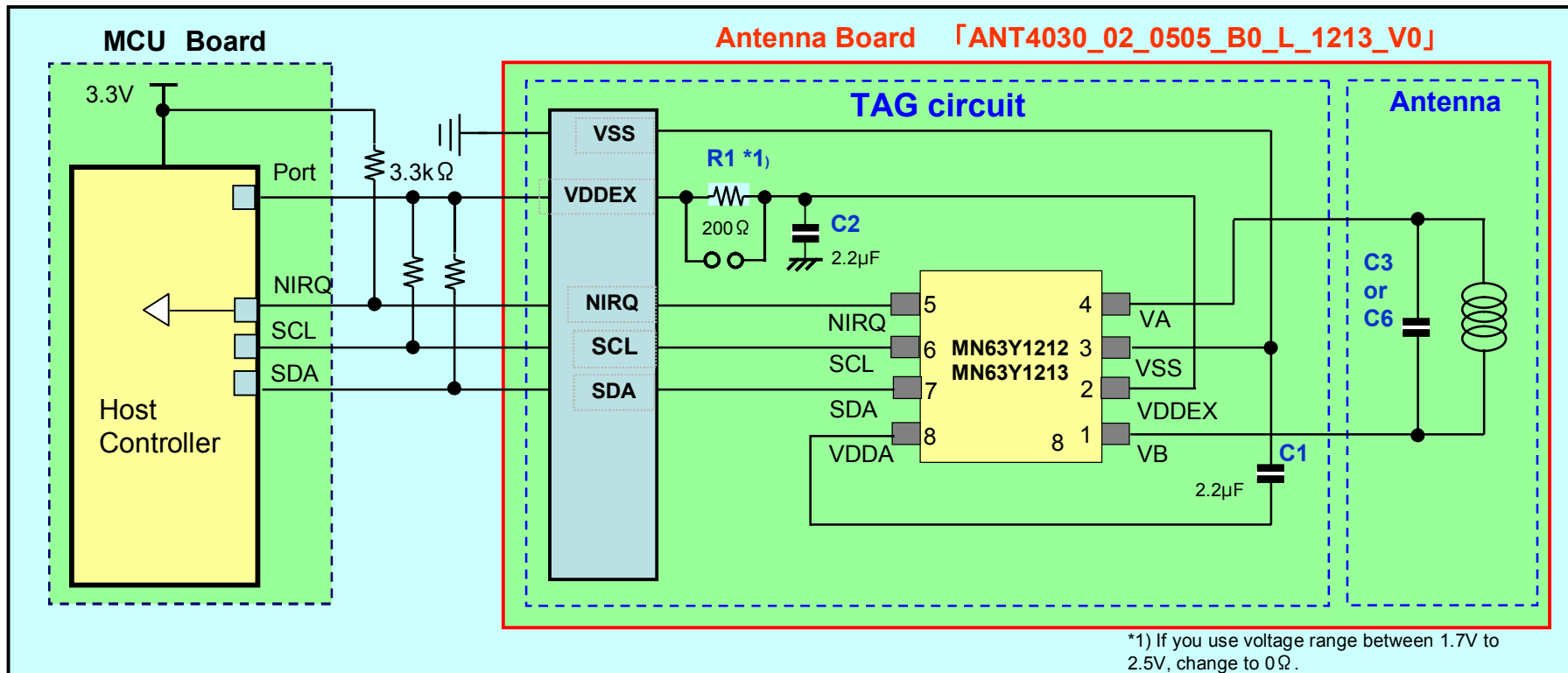
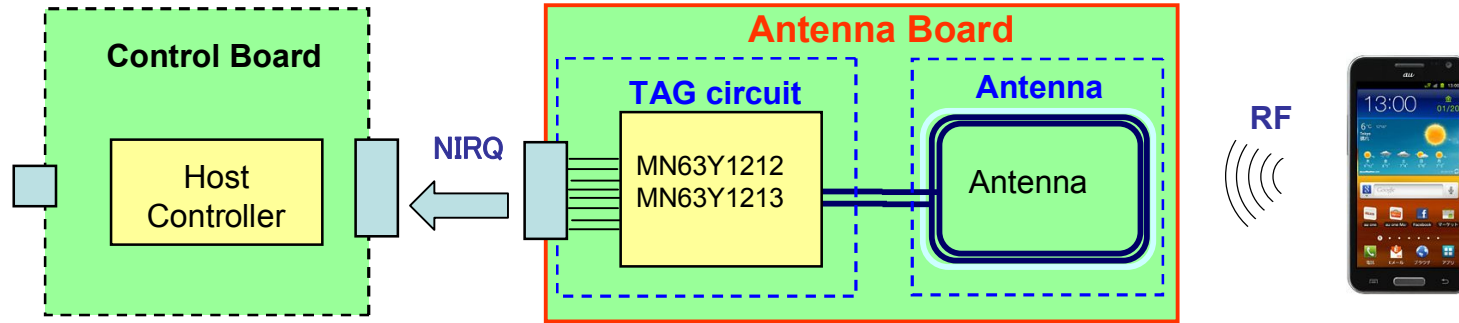
Unit: mm



※ Substrate size may differ from the substrate which exists to a visitor.
 ※ I connect pulling up resistance (R,R2,R3) to the microcomputer board of our offer.

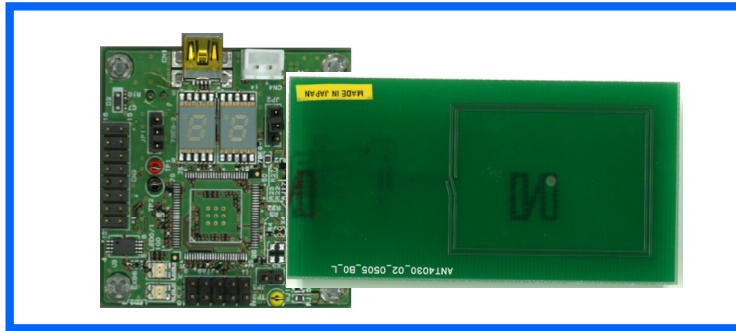
External parts	Recommended Value	Detail explanation
R2,R3	3.3kΩ	These are pull up resistor for I2C signal lines. Please choose the value considering data speed, parasitic capacitance of signal lines, and current drive performance. In our NFC tag board "ANT4030_02_0505_B0_L," it is not implemented.
R4	3.3kΩ	This is pull up resistor for interrupt signal lines. Please choose the value considering data speed, parasitic capacitance of signal lines, and current drive performance. In our NFC tag board "ANT4030_02_0505_B0_L," it is not implemented.
C1、C2	2.2μF	It is a fixed value at the capacity between the power supply for operation stabilization of the tag LSI. C2 is connected to VDDD, and C3 is connected to VDDA and C4 is connected to VDDEX.
R1	200Ω	Please set 200 ohm when use VDEEX between 2.5 to 3.6 V (Default value) Please set 0 ohm when use VDEEX between 1.7V to 2.5V (Short JP1)

NFC tag system constitution

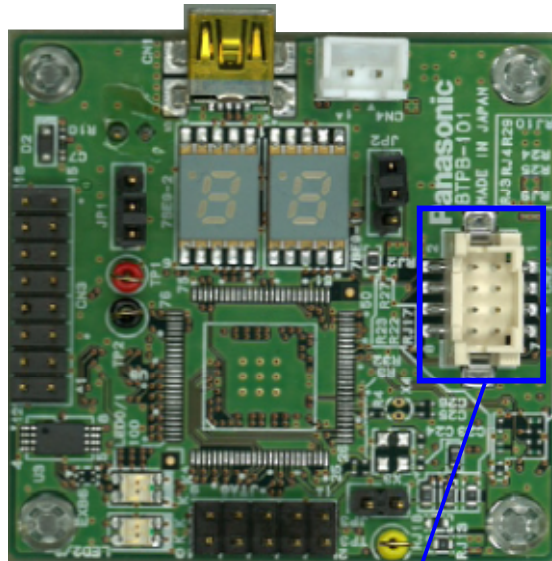


*1) If you use voltage range between 1.7V to 2.5V, change to 0Ω.

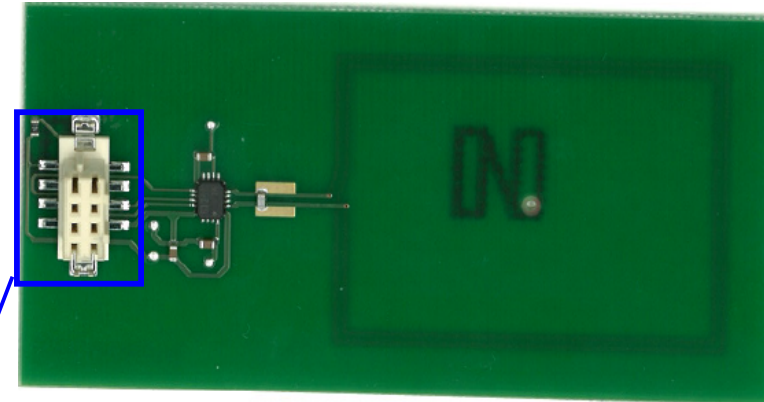
Connection image (Top view)



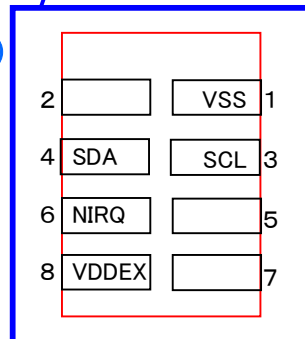
Micon board [BTPB101-B]



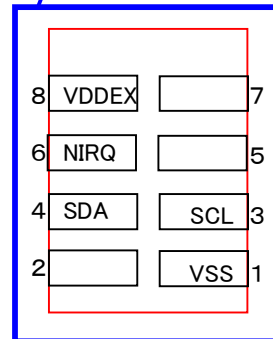
Antenna board [ANT4030_02_0505_B0_L_1213_V0]

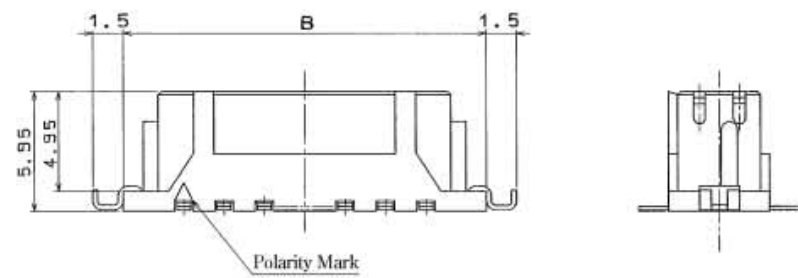
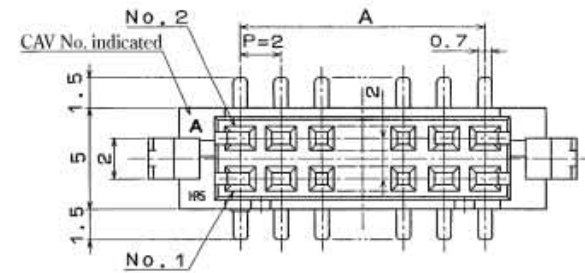
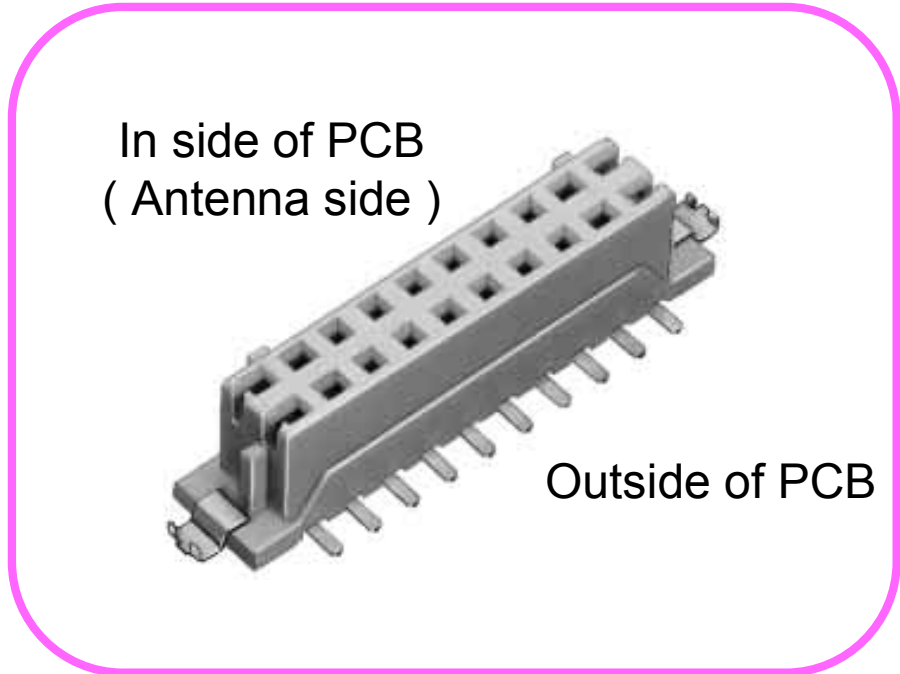


DF11GZ-8DP-2V(27)
(Hirose Electric)



HRS DF11GZ- 8DS-2V
(Hirose Electric)





Request for your special attention and precautions in using the technical information and semiconductors described in this book

- (1) If any of the products or technical information described in this book is to be exported or provided to non-residents, the laws and regulations of the exporting country, especially, those with regard to security export control, must be observed.
- (2) The technical information described in this book is intended only to show the main characteristics and application circuit examples of the products. No license is granted in and to any intellectual property right or other right owned by Panasonic Corporation or any other company. Therefore, no responsibility is assumed by our company as to the infringement upon any such right owned by any other company which may arise as a result of the use of technical information described in this book.
- (3) The products described in this book are intended to be used for general applications (such as office equipment, communications equipment, measuring instruments and household appliances), or for specific applications as expressly stated in this book.
Consult our sales staff in advance for information on the following applications:
 - Special applications (such as for airplanes, aerospace, automotive equipment, traffic signaling equipment, combustion equipment, life support systems and safety devices) in which exceptional quality and reliability are required, or if the failure or malfunction of the products may directly jeopardize life or harm the human body.It is to be understood that our company shall not be held responsible for any damage incurred as a result of or in connection with your using the products described in this book for any special application, unless our company agrees to your using the products in this book for any special application.
- (4) The products and product specifications described in this book are subject to change without notice for modification and/or improvement. At the final stage of your design, purchasing, or use of the products, therefore, ask for the most up-to-date Product Standards in advance to make sure that the latest specifications satisfy your requirements.
- (5) When designing your equipment, comply with the range of absolute maximum rating and the guaranteed operating conditions (operating power supply voltage and operating environment etc.). Especially, please be careful not to exceed the range of absolute maximum rating on the transient state, such as power-on, power-off and mode-switching. Otherwise, we will not be liable for any defect which may arise later in your equipment.
Even when the products are used within the guaranteed values, take into the consideration of incidence of break down and failure mode, possible to occur to semiconductor products. Measures on the systems such as redundant design, arresting the spread of fire or preventing glitch are recommended in order to prevent physical injury, fire, social damages, for example, by using the products.
- (6) Comply with the instructions for use in order to prevent breakdown and characteristics change due to external factors (ESD, EOS, thermal stress and mechanical stress) at the time of handling, mounting or at customer's process. When using products for which damp-proof packing is required, satisfy the conditions, such as shelf life and the elapsed time since first opening the packages.
- (7) This book may be not reprinted or reproduced whether wholly or partially, without the prior written permission of our company.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Panasonic:](#)

[NFC-TAG-MN63Y1213-2020](#) [NFC-TAG-MN63Y1213-4030](#)

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А