

## Chip beads

For general signal line

MMZ series (for automotive)



AEC-Q200

## MMZ1005 type



## FEATURES

- Noise reduction solution for general signal line.
- Various frequency characteristics with 5 materials of different features for countermeasures against everything from general signals to high-speed signals.
- Operating temperature range: -55 to +125°C
- Compliant with AEC-Q200

## APPLICATION

- Various ECUs, powertrains, body controls, and car multimedia (telematics).

## PART NUMBER CONSTRUCTION

MMZ	1005	S	800	C	T	D25
Series name	LxWxT dimensions 1.0x0.5x0.5mm	Material name	Impedance ( $\Omega$ ) at 100MHz	Characteristic type	Packaging style	Internal code

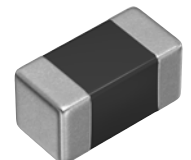
## CHARACTERISTICS SPECIFICATION TABLE

Impedance [100MHz] ( $\Omega$ )	Tolerance	DC resistance ( $\Omega$ )max.	Rated current (mA)max.	Part No.
80	±25%	0.19	450	<a href="#">MMZ1005B800CTD25</a>
120	±25%	0.25	400	<a href="#">MMZ1005B121CTD25</a>
600	±25%	0.85	200	<a href="#">MMZ1005B601CTD25</a>
80	±25%	0.12	500	<a href="#">MMZ1005S800CTD25</a>
120	±25%	0.22	500	<a href="#">MMZ1005S121CTD25</a>
240	±25%	0.28	400	<a href="#">MMZ1005S241CTD25</a>
600	±25%	0.52	300	<a href="#">MMZ1005S601CTD25</a>
1000	±25%	0.75	200	<a href="#">MMZ1005S102CTD25</a>
40	±25%	0.10	550	<a href="#">MMZ1005Y400CTD25</a>
80	±25%	0.17	450	<a href="#">MMZ1005Y800CTD25</a>
120	±25%	0.18	400	<a href="#">MMZ1005Y121CTD25</a>
240	±25%	0.26	300	<a href="#">MMZ1005Y241CTD25</a>
300	±25%	0.38	250	<a href="#">MMZ1005Y301CTD25</a>
470	±25%	0.47	250	<a href="#">MMZ1005Y471CTD25</a>
600	±25%	0.54	250	<a href="#">MMZ1005Y601CTD25</a>
1000	±25%	0.70	200	<a href="#">MMZ1005Y102CTD25</a>
1500	±25%	1.00	100	<a href="#">MMZ1005Y152CTD25</a>
1800	±25%	0.85	150	<a href="#">MMZ1005Y182CTD25</a>

## Measurement equipment

Measurement item	Product No.	Manufacturer
Impedance	E4991A+16192A	Keysight Technologies
DC resistance	Type-7556	Yokogawa

\* Equivalent measurement equipment may be used.



# MMZ1005 type

## CHARACTERISTICS SPECIFICATION TABLE

Impedance [100MHz] ( $\Omega$ )		DC resistance ( $\Omega$ )max.	Rated current (mA)max.	Part No.
	Tolerance			
10	$\pm 5\Omega$	0.10	500	<a href="#">MMZ1005D100CTD25</a>
22	$\pm 25\%$	0.17	400	<a href="#">MMZ1005D220CTD25</a>
33	$\pm 25\%$	0.24	400	<a href="#">MMZ1005D330CTD25</a>
68	$\pm 25\%$	0.38	400	<a href="#">MMZ1005D680CTD25</a>
120	$\pm 25\%$	0.60	350	<a href="#">MMZ1005D121CTD25</a>
240	$\pm 25\%$	0.90	200	<a href="#">MMZ1005D241CTD25</a>
33	$\pm 25\%$	0.50	200	<a href="#">MMZ1005F330CTD25</a>
47	$\pm 25\%$	0.60	100	<a href="#">MMZ1005F470CTD25</a>
56	$\pm 25\%$	0.70	100	<a href="#">MMZ1005F560CTD25</a>

### Measurement equipment

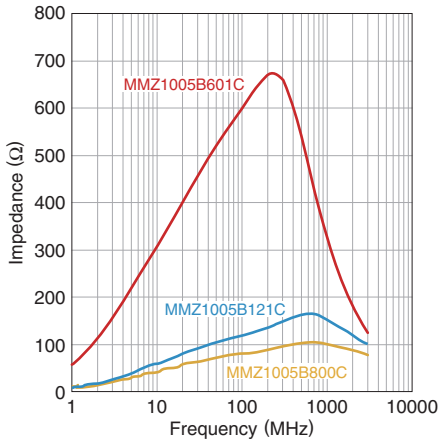
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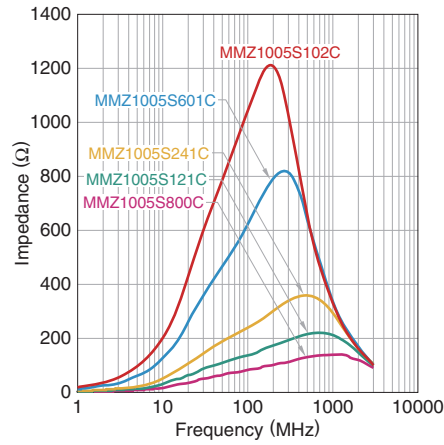
# MMZ1005 type

## Z VS. FREQUENCY CHARACTERISTICS (BY SERIES)

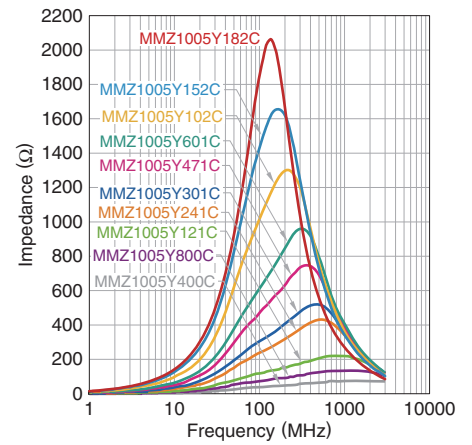
**MMZ1005B series**



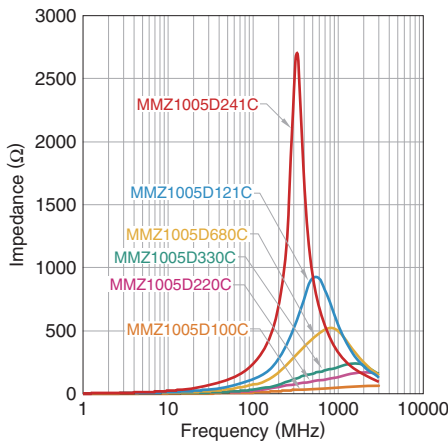
**MMZ1005S series**



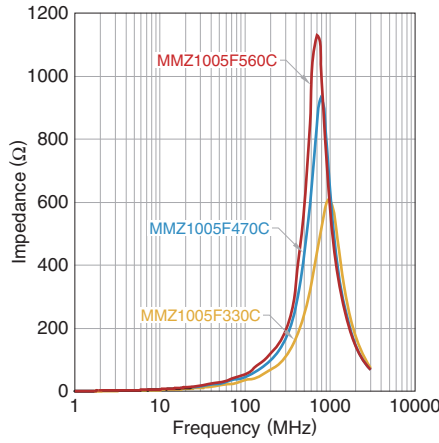
**MMZ1005Y series**



**MMZ1005D series**



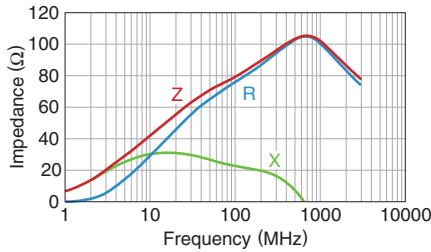
**MMZ1005F series**



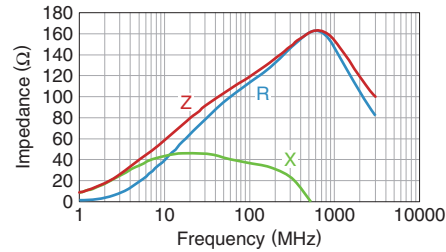
# MMZ1005 type

## Z, X, R VS. FREQUENCY CHARACTERISTICS

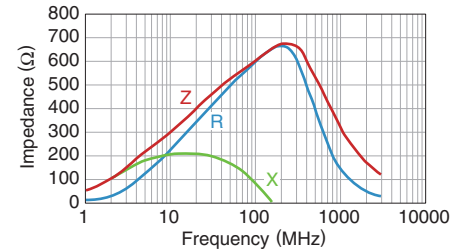
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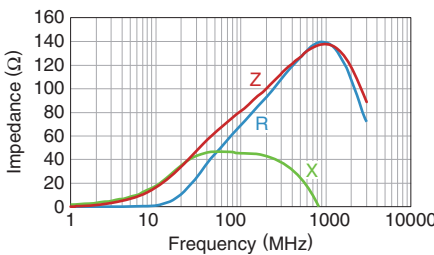
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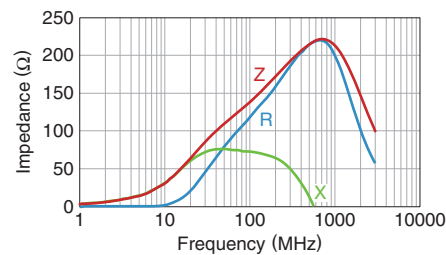
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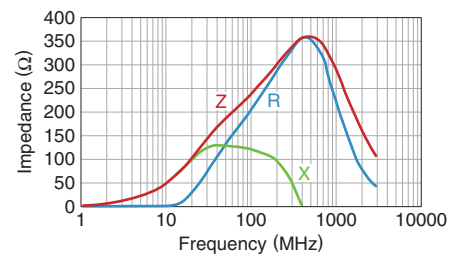
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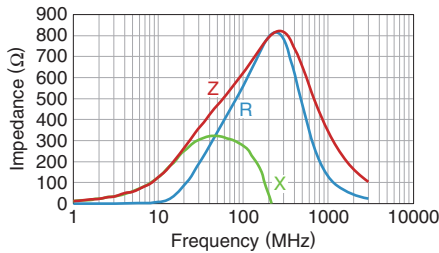
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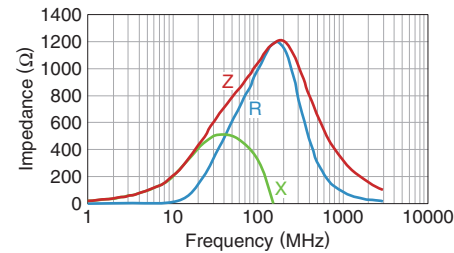
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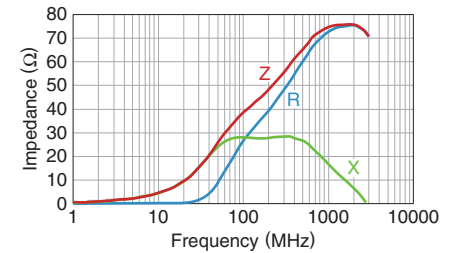
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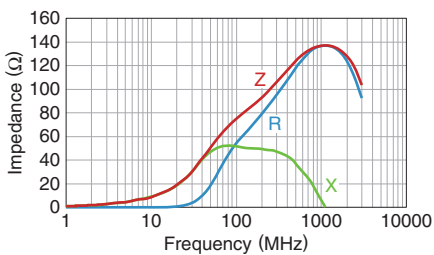
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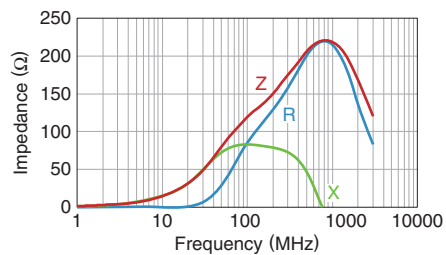
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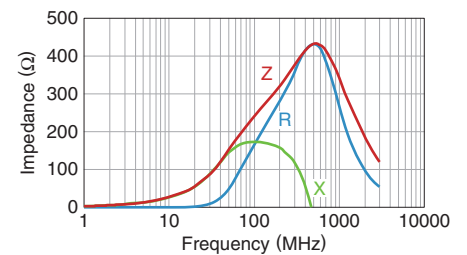
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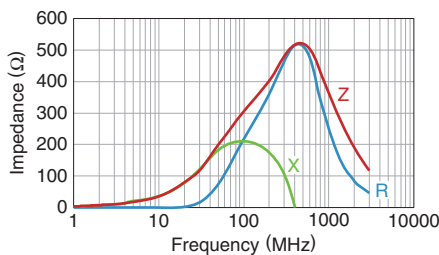
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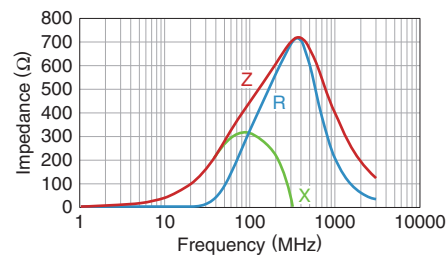
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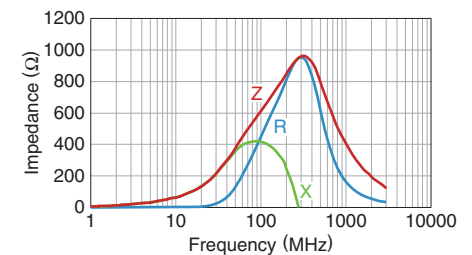
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MMZ1005Y471CTD25



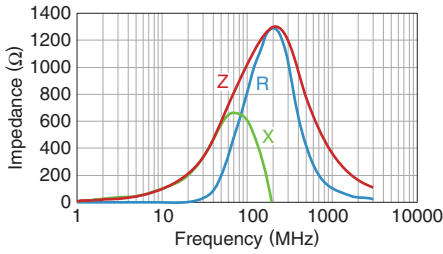
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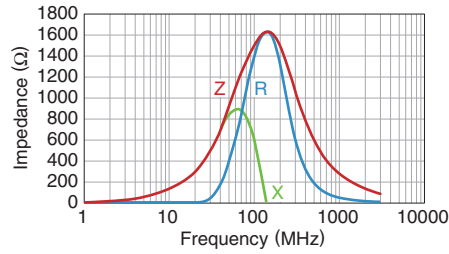
# MMZ1005 type

## Z, X, R VS. FREQUENCY CHARACTERISTICS

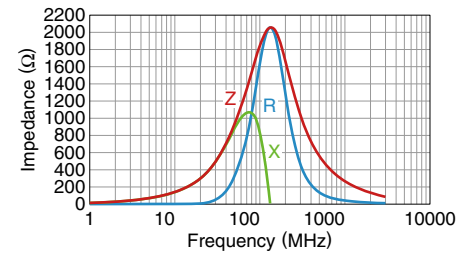
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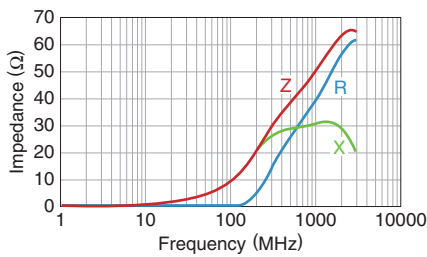
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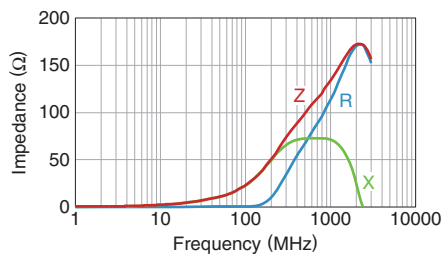
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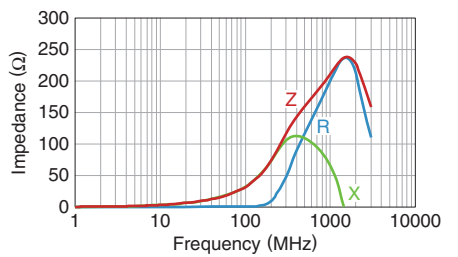
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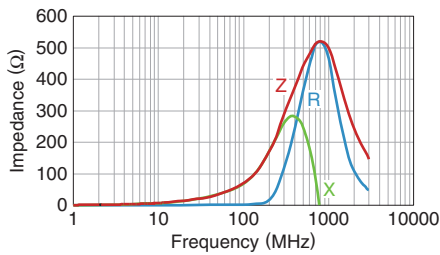
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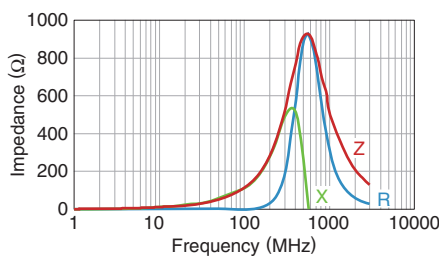
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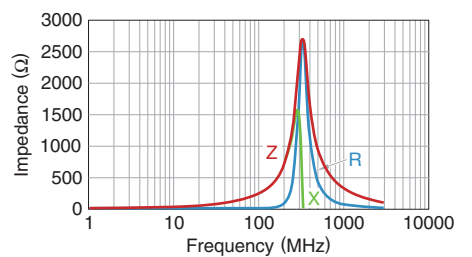
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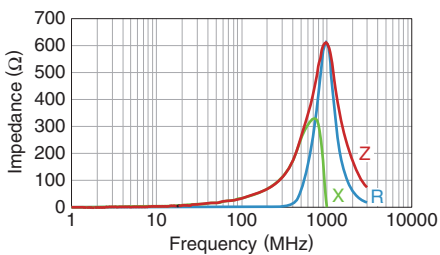
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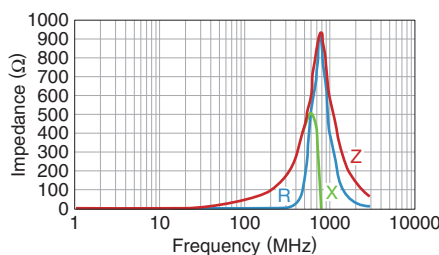
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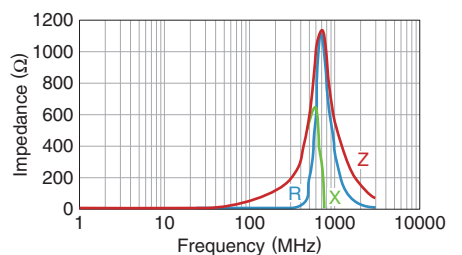
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MMZ1005F470CTD25

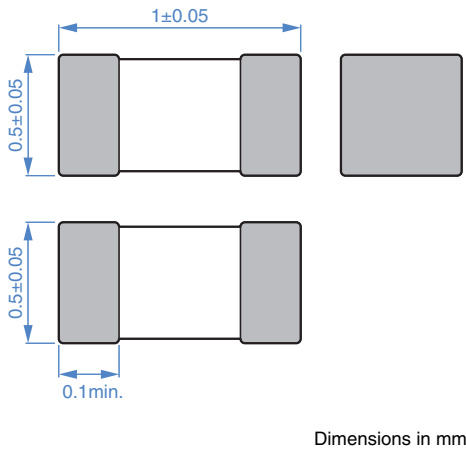


MMZ1005F560CTD25



# MMZ1005 type

## SHAPE & DIMENSIONS

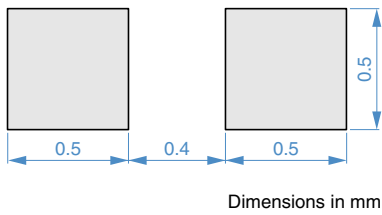


## PACKAGING STYLE

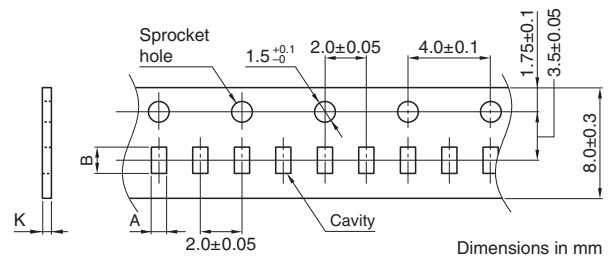
### REEL DIMENSIONS



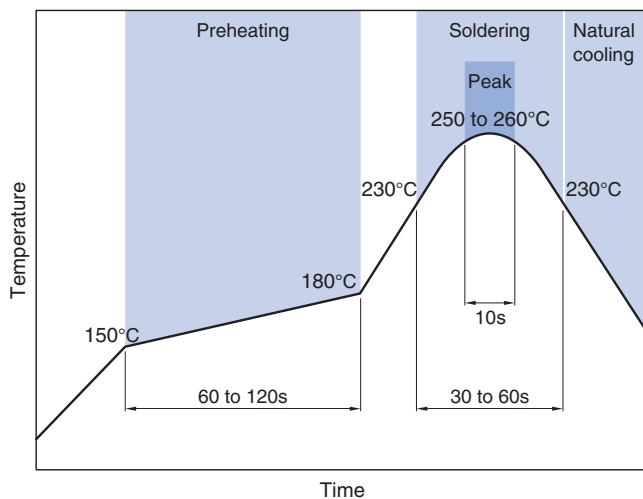
## RECOMMENDED LAND PATTERN



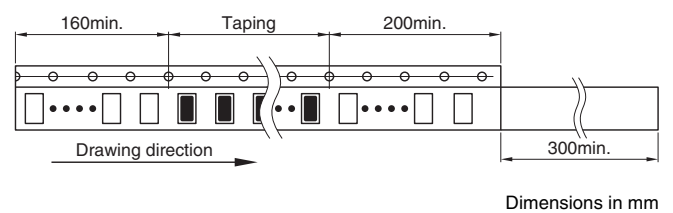
### TAPE DIMENSIONS



## RECOMMENDED REFLOW PROFILE



Type	A	B	K
MMZ1005	0.65±0.1	1.15±0.1	0.8max.



### PACKAGE QUANTITY

Package quantity	10,000 pcs/reel
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### TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range	Storage temperature range*	Individual weight
-55 to +125°C	-55 to +125°C	1 mg

\* The storage temperature range is for after the assembly.

## REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

### SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.

#### REMINDERS

- The storage period is within 12 months. Be sure to follow the storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH or less).  
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- Before soldering, be sure to preheat components.  
The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications.  
If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Carefully lay out the coil for the circuit board design of the non-magnetic shield type.  
A malfunction may occur due to magnetic interference.
- Use a wrist band to discharge static electricity in your body through the grounding wire.
- Do not expose the products to magnets or magnetic fields.
- Do not use for a purpose outside of the contents regulated in the delivery specifications.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.  
The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.  
If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.



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).



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Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

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

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