

Inductors for decoupling circuits

Wound ferrite

NLCV-EFR series



NLCV32-EFR type



FEATURES

- Resin mold type wound inductor for decoupling circuits.
- Operating temperature range: -40 to +125°C (including self-temperature rise)

APPLICATION

- Smart meters, AV equipment, xDSL, electronic devices for communications infrastructure such as mobile base stations, industrial equipment, other

PART NUMBER CONSTRUCTION

NLCV	32	T	-	R10	M	-	EFR
Series name	LxWxH dimensions 3.2x2.5x2.2 mm	Packaging style		Inductance (μH)	Inductance tolerance		Internal code

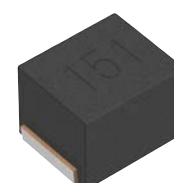
CHARACTERISTICS SPECIFICATION TABLE

L (μH)	Tolerance	Q ref.	L, Q measuring frequency (MHz)	DC resistance (Ω)±20%	Rated current (mA)max.	Part No.
0.1	±20%	10	25.2	0.02	2850	NLCV32T-R10M-EFR
0.15	±20%	10	25.2	0.024	2600	NLCV32T-R15M-EFR
0.22	±20%	10	25.2	0.027	2400	NLCV32T-R22M-EFR
0.33	±20%	10	25.2	0.035	2100	NLCV32T-R33M-EFR
0.47	±20%	10	25.2	0.038	2000	NLCV32T-R47M-EFR
0.68	±20%	10	25.2	0.045	1900	NLCV32T-R68M-EFR
1	±20%	15	7.96	0.055	1700	NLCV32T-1R0M-EFR
1.5	±20%	15	7.96	0.095	1400	NLCV32T-1R5M-EFR
2.2	±20%	15	7.96	0.115	1200	NLCV32T-2R2M-EFR
3.3	±20%	15	7.96	0.16	1000	NLCV32T-3R3M-EFR
4.7	±20%	15	7.96	0.2	900	NLCV32T-4R7M-EFR
6.8	±20%	15	7.96	0.29	700	NLCV32T-6R8M-EFR
10	±10%	20	2.52	0.42	600	NLCV32T-100K-EFR

Measurement equipment

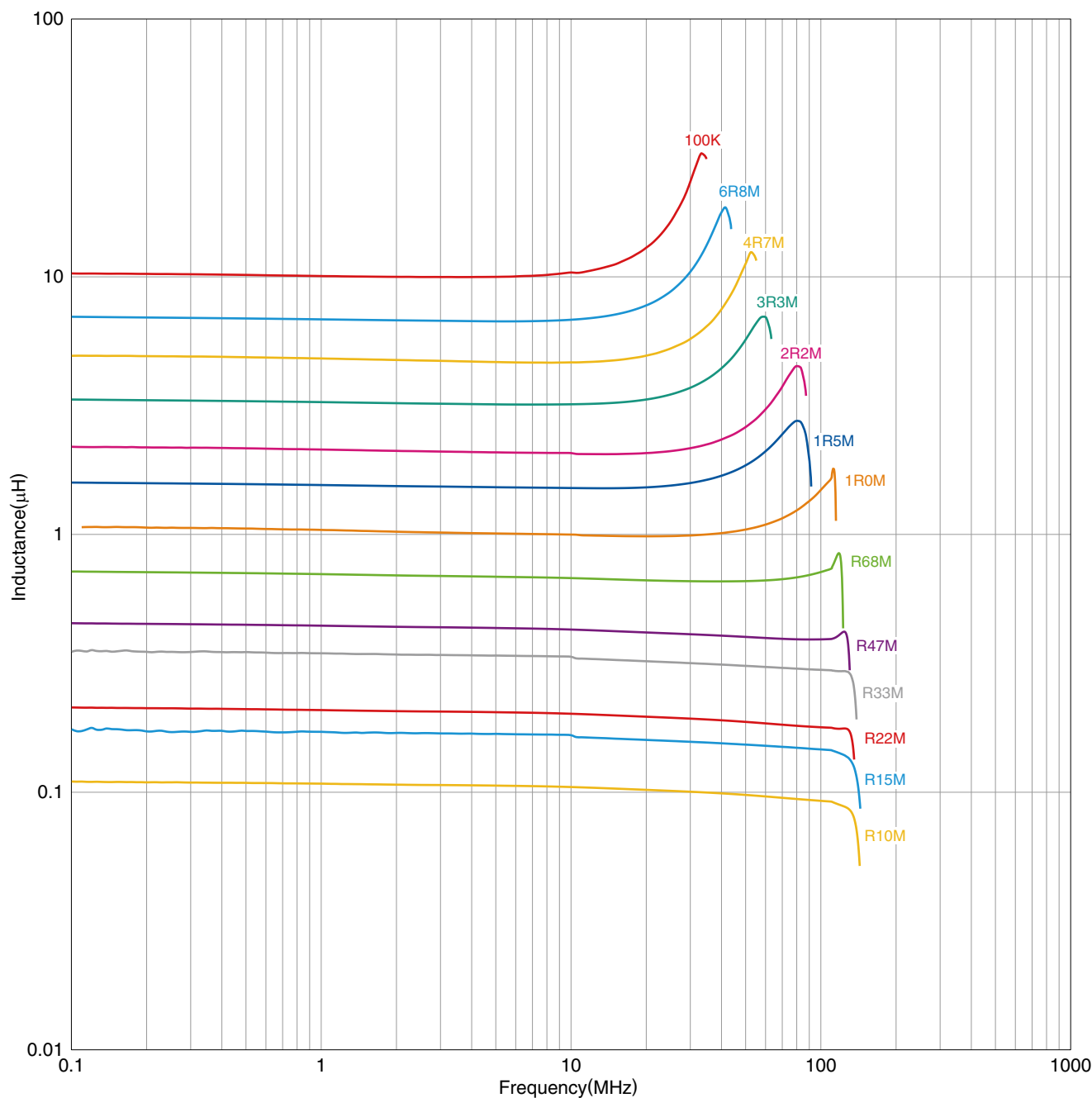
Measurement item	Product No.	Manufacturer
L, Q	4294A+16093B	Keysight Technologies
DC resistance	AX-114N	ADEX

* Equivalent measurement equipment may be used.



NLCV32-EFR type

L FREQUENCY CHARACTERISTICS



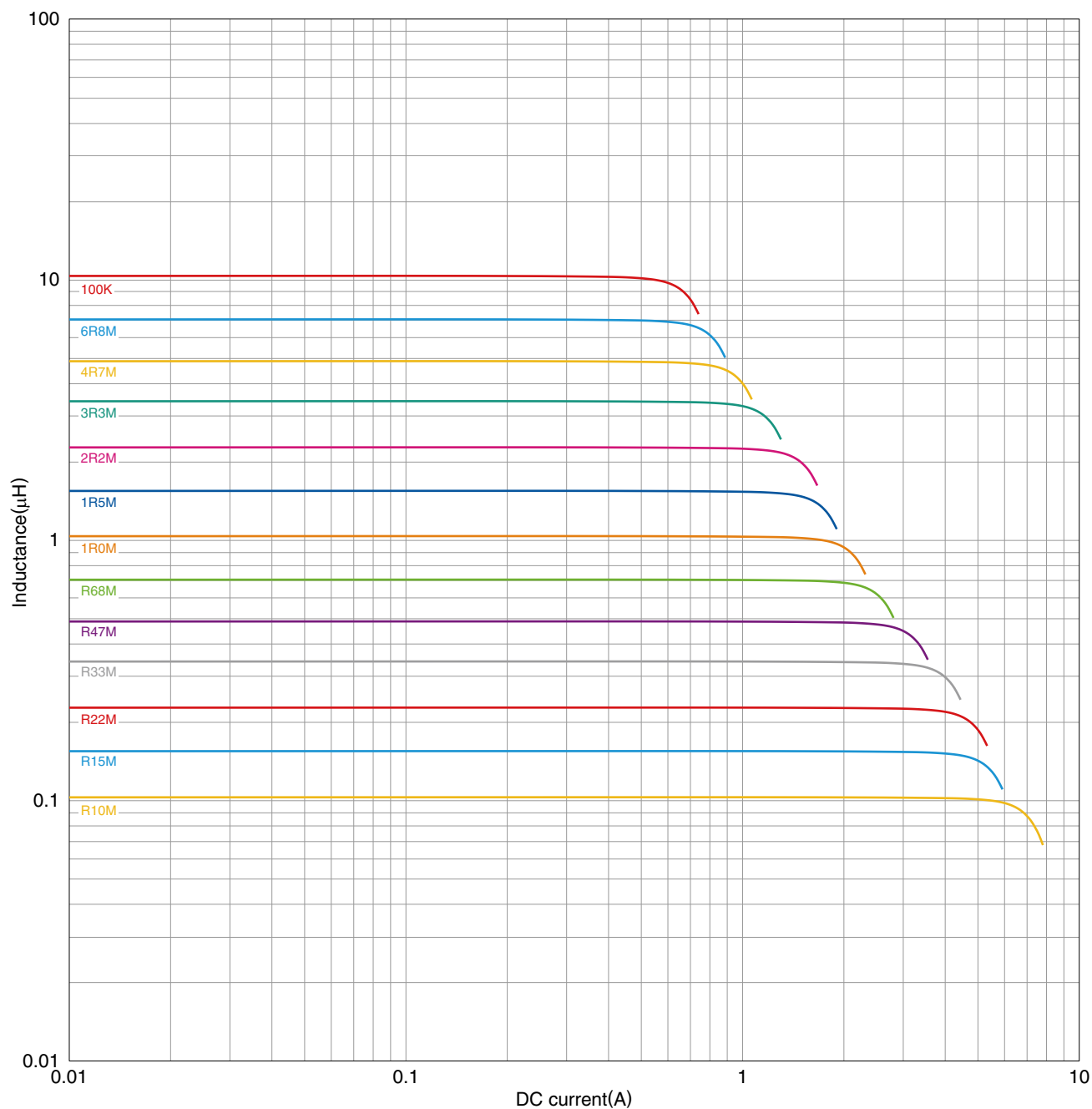
Measurement equipment

Product No.	Manufacturer
4294A	Keysight Technologies

* Equivalent measurement equipment may be used.

NLCV32-EFR type

■ INDUCTANCE VS. DC BIAS CHARACTERISTICS

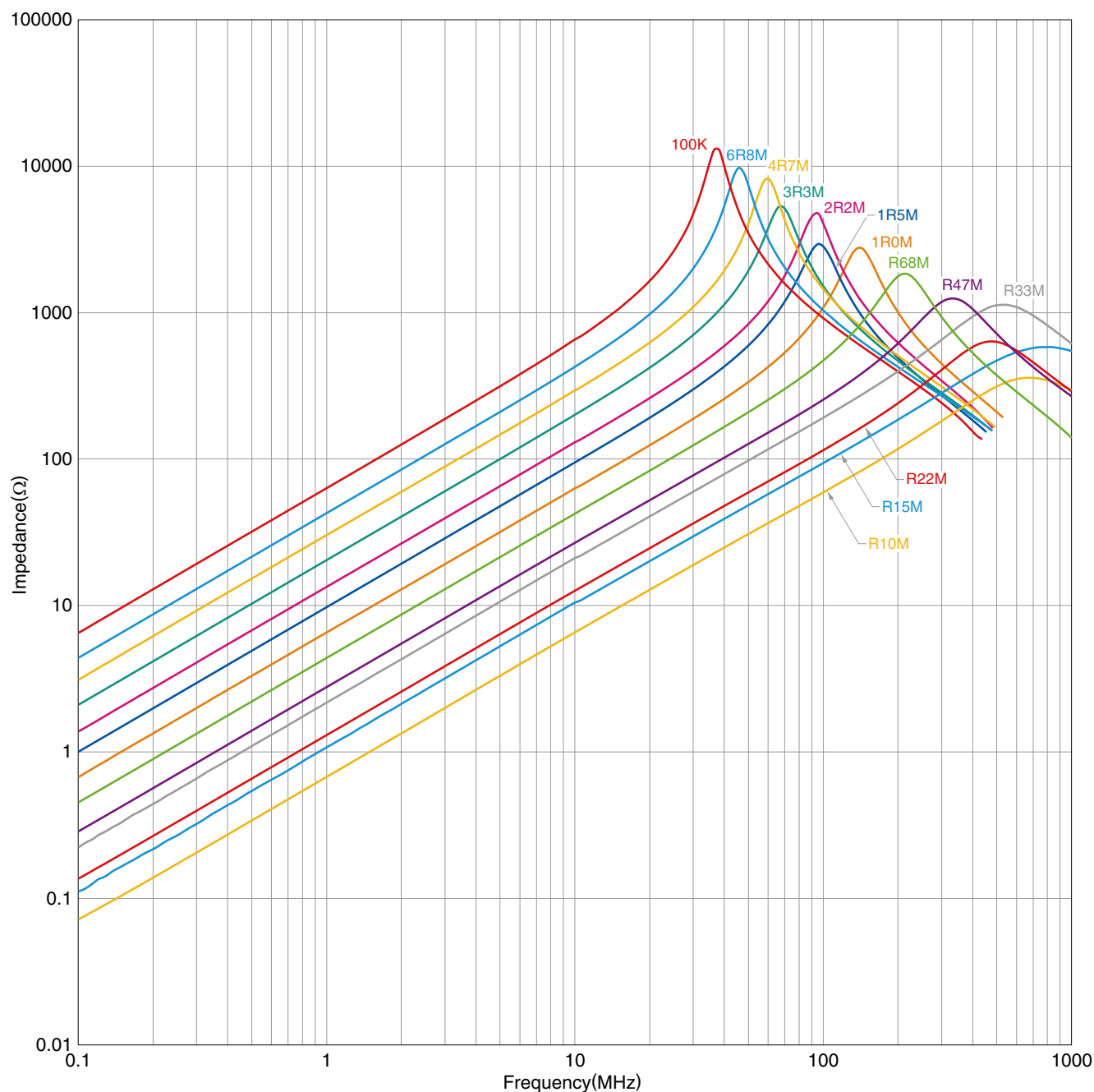


Measurement equipment

Product No.	Manufacturer
4285A+42841A+42842C	Keysight Technologies
* Equivalent measurement equipment may be used.	

NLCV32-EFR type

■ IMPEDANCE VS. FREQUENCY CHARACTERISTICS



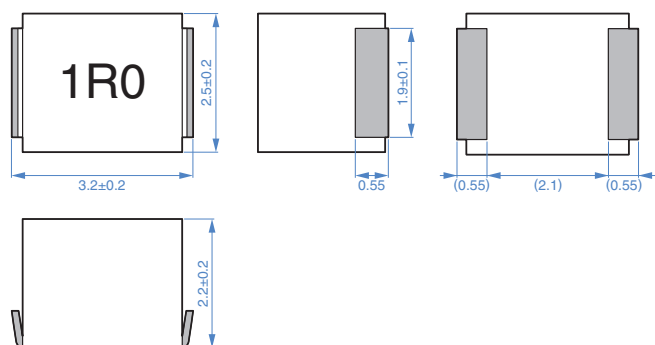
Measurement equipment

Product No.	Manufacturer
4294A	Keysight Technologies

* Equivalent measurement equipment may be used.

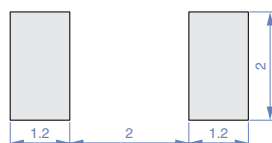
NLCV32-EFR type

SHAPE & DIMENSIONS



Dimensions in mm

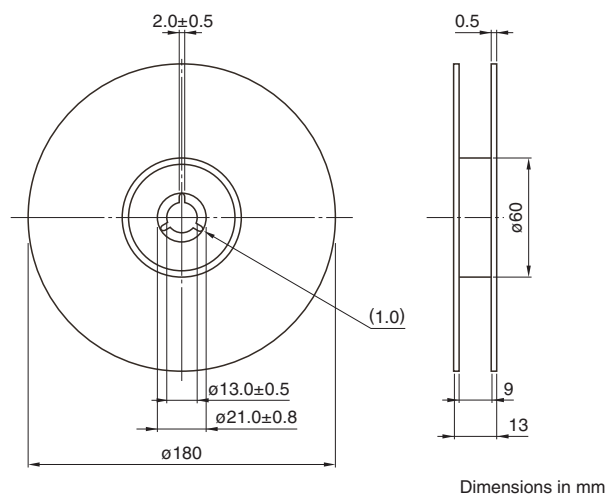
RECOMMENDED LAND PATTERN



Dimensions in mm

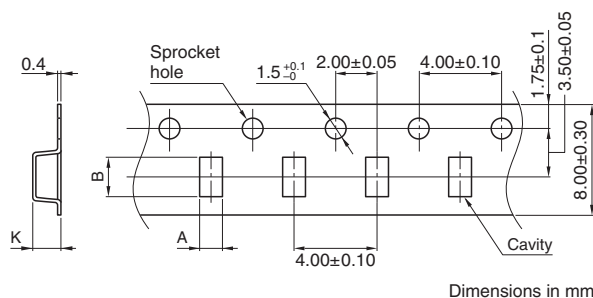
PACKAGING STYLE

REEL DIMENSIONS



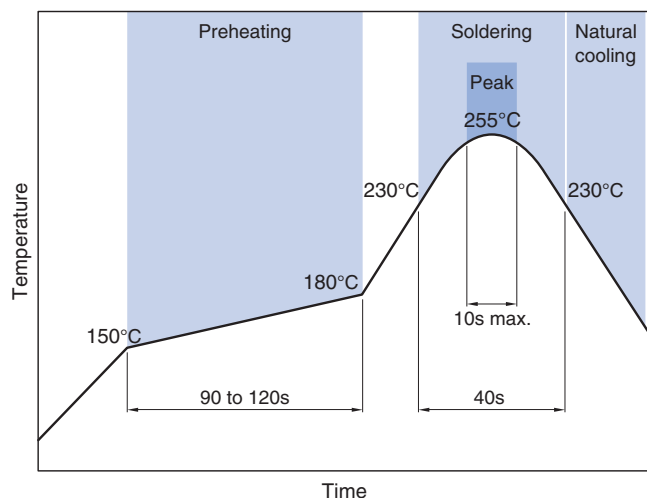
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

RECOMMENDED REFLOW PROFILE



PACKAGE QUANTITY

Package quantity	2000 pcs/reel
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TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range*	Storage temperature range**	Individual weight
-40 to +125 °C	-40 to +125 °C	50 mg

* Operating temperature range includes self-temperature rise.

** 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 less than 6 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 (cars, 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.



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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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