

Notice for TAIYO YUDEN products

Please read this notice before using the TAIYO YUDEN products.

/!\ REMINDERS

Product Information in this Catalog

Product information in this catalog is as of October 2019. All of the contents specified herein and production status of the products listed in this catalog are subject to change without notice due to technical improvement of our products, etc. Therefore, please check for the latest information carefully before practical application or use of our products.

Please note that TAIYO YUDEN shall not be in any way responsible for any damages and defects in products or equipment incorporating our products, which are caused under the conditions other than those specified in this catalog or individual product specification sheets.

Approval of Product Specifications

Please contact TAIYO YUDEN for further details of product specifications as the individual product specification sheets are available. When using our products, please be sure to approve our product specifications or make a written agreement on the product specification with TAIYO YUDEN in advance.

Pre-Evaluation in the Actual Equipment and Conditions

Please conduct validation and verification of our products in actual conditions of mounting and operating environment before using our products.

Limited Application

1. Equipment Intended for Use

The products listed in this catalog are intended for generalpurpose and standard use in general electronic equipment (e.g., AV equipment, OA equipment, home electric appliances, office equipment, information and communication equipment including, without limitation, mobile phone, and PC) and other equipment specified in this catalog or the individual product specification sheets.

TAIYO YUDEN has the line-up of the products intended for use in automotive electronic equipment, telecommunications infrastructure and industrial equipment, or medical devices classified as GHTF Classes A to C (Japan Classes I to III). Therefore, when using our products for these equipment, please check available applications specified in this catalog or the individual product specification sheets and use the corresponding products.

2. Equipment Requiring Inquiry

Please be sure to contact TAIYO YUDEN for further information before using the products listed in this catalog for the following equipment (excluding intended equipment as specified in this catalog or the individual product specification sheets) which may cause loss of human life, bodily injury, serious property damage and/or serious public impact due to a failure or defect of the products and/or malfunction attributed thereto.

- (1) Transportation equipment (automotive powertrain control system, train control system, and ship control system, etc.)
- (2) Traffic signal equipment
- (3) Disaster prevention equipment, crime prevention equipment
- (4) Medical devices classified as GHTF Class C (Japan Class III)
- (5) Highly public information network equipment, dataprocessing equipment (telephone exchange, and base station, etc.)
- (6) Any other equipment requiring high levels of quality and/or reliability equal to the equipment listed above

3. Equipment Prohibited for Use

Please do not incorporate our products into the following equipment requiring extremely high levels of safety and/or reliability.

- (1) Aerospace equipment (artificial satellite, rocket, etc.)
- (2) Aviation equipment *1
- (3) Medical devices classified as GHTF Class D (Japan Class IV), implantable medical devices *2

- (4) Power generation control equipment (nuclear power, hydroelectric power, thermal power plant control system, etc.)
- (5) Undersea equipment (submarine repeating equipment, underwater work equipment, etc.)
- (6) Military equipment
- (7) Any other equipment requiring extremely high levels of safety and/or reliability equal to the equipment listed above

*Notes:

- 1. There is a possibility that our products can be used only for aviation equipment that does not directly affect the safe operation of aircraft (e.g., in-flight entertainment, cabin light, electric seat, cooking equipment) if such use meets requirements specified separately by TAIYO YUDEN. Please be sure to contact TAIYO YUDEN for further information before using our products for such aviation equipment.
- Implantable medical devices contain not only internal unit which is implanted in a body, but also external unit which is connected to the internal unit.

4. Limitation of Liability

Please note that unless you obtain prior written consent of TAIYO YUDEN, TAIYO YUDEN shall not be in any way responsible for any damages incurred by you or third parties arising from use of the products listed in this catalog for any equipment that is not intended for use by TAIYO YUDEN, or any equipment requiring inquiry to TAIYO YUDEN or prohibited for use by TAIYO YUDEN as described above.

Safety Design

When using our products for high safety and/or reliability-required equipment or circuits, please fully perform safety and/or reliability evaluation. In addition, please install (i) systems equipped with a protection circuit and a protection device and/or (ii) systems equipped with a redundant circuit or other system to prevent an unsafe status in the event of a single fault for a failsafe design to ensure safety.

Intellectual Property Rights

Information contained in this catalog is intended to convey examples of typical performances and/or applications of our products and is not intended to make any warranty with respect to the intellectual property rights or any other related rights of TAIYO YUDEN or any third parties nor grant any license under such rights.

Limited Warranty

Please note that the scope of warranty for our products is limited to the delivered our products themselves and TAIYO YUDEN shall not be in any way responsible for any damages resulting from a failure or defect in our products. Notwithstanding the foregoing, if there is a written agreement (e.g., supply and purchase agreement, quality assurance agreement) signed by TAIYO YUDEN and your company, TAIYO YUDEN will warrant our products in accordance with such agreement

■ TAIYO YUDEN's Official Sales Channel

The contents of this catalog are applicable to our products which are purchased from our sales offices or authorized distributors (hereinafter "TAIYO YUDEN's official sales channel"). Please note that the contents of this catalog are not applicable to our products purchased from any seller other than TAIYO YUDEN's official sales channel.

Caution for Export

Some of our products listed in this catalog may require specific procedures for export according to "U.S. Export Administration Regulations", "Foreign Exchange and Foreign Trade Control Law" of Japan, and other applicable regulations. Should you have any questions on this matter, please contact our sales staff.

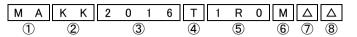
for General Electronic Equipment

METAL CORE WIRE-WOUND CHIP POWER INDUCTORS (MCOILTM MA SERIES)



PARTS NUMBER

* Operating Temp.:-40~+105°C (Including self-generated heat)



⊙ •	
(I Serie	s name
1) OCITIC	3 Hailio

Code	Series name
MA	Metal Core Wire-wound Chip Power Inductor

②Dimensions(T)

Code	Dimensions(T)[mm]
KK	1.0
MK	1.2

③Dimensions(L x W)

©2e.e.e.e.e.e.e.e.e.e.e.e.e.e.e.e.e.			
Code	Type (inch)	Dimensions (L×W)[mm]	
2016	2016(0806)	2.0 × 1.6	
2520	2520(1008)	2.5 × 2.0	

4)Pacl	kaging

Type

MAKK2016

MAKK2520

MAMK2520

4)Packaging	
Code	Packaging
Т	Taping

(5)Nominal inductance

△=Blank space

Code (example)	Nominal inductance[μ H]	
R47	0.47	
1R0	1.0	
4R7	4.7	

※R=Decimal point

6 Inductance tolerance

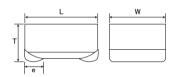
Code	Inductance tolerance
M	±20%

(7)Special code

Copedia code	
Code	Special code
Δ	Standard

®Internal code

■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



 2.0 ± 0.1

 (0.079 ± 0.004)

 2.5 ± 0.2

 (0.098 ± 0.008)

 2.5 ± 0.2

 (0.098 ± 0.008)

1.6±0.1

 (0.063 ± 0.004)

 2.0 ± 0.2

 (0.079 ± 0.008)

 2.0 ± 0.2

 (0.079 ± 0.008)

Recommended Land Patterns

(0.047 max)

•Mounting and soldering conditions should be checked beforehand.

 (0.020 ± 0.012)

*Applicable soldering process to these products is reflow soldering only.

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Туре	Α	В	С
2016	0.7	0.8	1.8
2520	0.8	1.2	2.0
			Unit:mm

3000

Standard quantity[pcs] Т **Taping** 0.5 ± 0.3 1.0 max 3000 (0.039 max) (0.020 ± 0.012) 1.0 max 0.5 ± 0.3 3000 (0.039 max) (0.020 ± 0.012) 1.2 max 0.5 ± 0.3

Unit:mm(inch)

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MAKK2016(0806) type	[Thickness:1.0mm max.]

	EHS Nominal inductar	Managard Sadardana	Inductance tolerance		DC Resistance	Rated current ※) [mA](max.)		Measuring
Parts number					[Ω](max.)	Saturation current Idc1	Temperature rise current Idc2	frequency[MHz]
MAKK2016TR24M	RoHS	0.24	±20%	-	0.037	4,200	3,000	2
MAKK2016TR33M	RoHS	0.33	±20%	-	0.040	3,600	3,200	2
MAKK2016TR47M	RoHS	0.47	±20%	-	0.460	3,200	2,800	2
MAKK2016TR68M	R₀HS	0.68	±20%	-	0.065	2,500	2,500	2
MAKK2016T1R0M	RoHS	1.0	±20%	1	0.075	2,200	2,200	2
MAKK2016T1R5M	RoHS	1.5	±20%	1	0.130	1,600	1,650	2
MAKK2016T2R2M	RoHS	2.2	±20%	1	0.160	1,500	1,500	2
MAKK2016T3R3M	R ₀ HS	3.3	±20%	-	0.255	1,150	1,200	2
MAKK2016T4R7M	R ₀ HS	4.7	±20%	-	0.380	1,000	950	2

MAKK2520(1008) type [Thickness: 1.0mm max.]

		Nominal inductance [μΗ]	Inductance tolerance	Self-resonant	DC Resistance [Ω](max.)	Rated current ※) [mA](max.)		Measuring
Parts number	EHS			frequency [MHz] (min.)		Saturation current Idc1	Temperature rise current Idc2	frequency[MHz]
MAKK2520TR33M	RoHS	0.33	±20%	-	0.038	4,700	3,500	2
MAKK2520TR47M	RoHS	0.47	±20%	=	0.046	3,900	3,200	2
MAKK2520TR68M	RoHS	0.68	±20%	-	0.059	3,700	2,900	2
MAKK2520T1R0M	RoHS	1.0	±20%	-	0.072	2,700	2,500	2
MAKK2520T1R5M	RoHS	1.5	±20%	-	0.125	2,300	1,800	2
MAKK2520T2R2M	RoHS	2.2	±20%	-	0.156	1,900	1,500	2
MAKK2520T3R3M	RoHS	3.3	±20%	_	0.200	1,550	1,300	2
MAKK2520T4R7M	RoHS	4.7	±20%	-	0.300	1,300	1,100	2

MAMK2520(1008) type

■MAMK2520(1008	() type	[I nickness: I.2mm	max.』					
	EHS	Nominal inductance [μ H]	Inductance tolerance	Self-resonant frequency [MHz] (min.)	DC Resistance [Ω] (max.)	Rated current ※) [mA](max.)		Measuring
Parts number						Saturation current Idc1	Temperature rise current Idc2	frequency[MHz]
MAMK2520TR47M	R₀HS	0.47	±20%	-	0.039	4,200	3,400	2
MAMK2520TR68M	R₀HS	0.68	±20%	-	0.048	3,200	3,200	2
MAMK2520T1R0M	RoHS	1.0	±20%	1	0.059	3,100	2,700	2
MAMK2520T2R2M	RoHS	2.2	±20%	1	0.110	2,000	1,900	2
MAMK2520T3R3M	RoHS	3.3	±20%	1	0.156	1,800	1,700	2
MAMK2520T4R7M	RoHS	4.7	±20%	1	0.260	1,500	1,300	2

- $\mbox{\%}$) The saturation current value (Idc1) is the DC current value having inductance decrease down to 30%. (at 20°C)
- X) The rated current value is following either Idc1 or Idc2, which is the lower one.

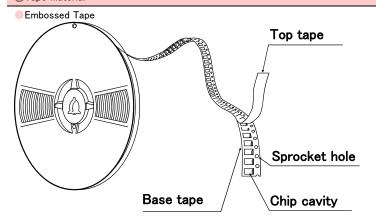
METAL CORE WIRE-WOUND CHIP POWER INDUCTORS (MCOIL™ MA SERIES / MCOIL™ MA-H SERIES)

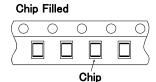
PACKAGING

1 Minimum Quantity

Type	Standard Quantity [pcs]
туре	Tape & Reel
MAKK2016	3000
MAKK2520	3000
MAMK2520	3000

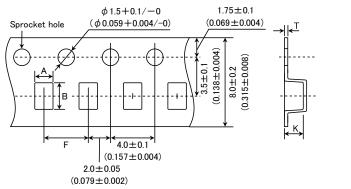
2Tape Material

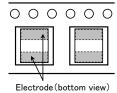




3 Taping dimensions

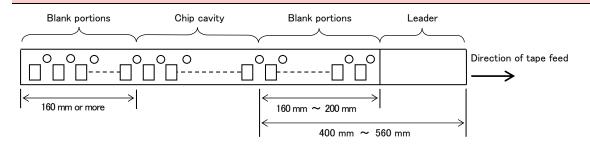
Embossed tape 8mm wide (0.315 inches wide)





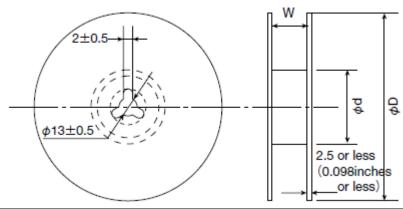
Tuna	Chip cavity		Insertion pitch	Tape thickness	
Туре	Α	В	F	T	K
MAKK2016	1.9±0.1	2.3±0.1	4.0±0.1	0.25±0.05	1.2 max
MAKK2016	(0.075 ± 0.004)	(0.091 ± 0.004)	(0.157 ± 0.004)	(0.009 ± 0.002)	(0.047 max)
MAKK2520	2.3±0.1	2.8±0.1	4.0±0.1	0.3±0.05	1.25 max
	(0.091 ± 0.004)	(0.110 ± 0.004)	(0.157 ± 0.004)	(0.012 ± 0.002)	(0.049 max)
MAMK2520	2.3±0.1	2.8±0.1	4.0±0.1	0.3±0.05	1.4 max
	(0.091 ± 0.004)	(0.110 ± 0.004)	(0.157 ± 0.004)	(0.012 ± 0.002)	(0.055 max)
					Unit:mm(inch)

QLeader and Blank portion



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⑤Reel size

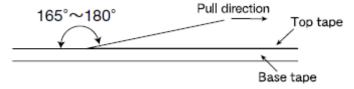


Type	Reel size (Reference values)					
Туре	ϕ D	ϕ d	W			
MAKK2016	100+0 / 2	60.1/0	100+15			
MAKK2520	180+0/-3 (7.087+0/-0.118)	60+1/-0 (2.36+0.039/0)	10.0±1.5 (0.394±0.059)			
MAMK2520	(7.087+0/-0.118)	(2.30+0.039/0)	(0.394±0.059)			
•						

Unit:mm(inch)

6Top Tape Strength

The top The top tape requires a peel-off force of 0.1 to 1.2N in the direction of the arrow as illustrated below.



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METAL CORE WIRE-WOUND CHIP POWER INDUCTORS (MCOIL $^{\text{TM}}$ MA SERIES / MCOIL $^{\text{TM}}$ MA-H SERIES)

■RELIABILITY DATA

1. Operating Tempe	rature Range					
Consider 11/1	MA series	-40~+105°C				
Specified Value	MA-H series	-40~+125°C				
Test Methods and Remarks	Including self-generated heat					
0.00 T						
2. Storage Tempera						
Specified Value	MA series MA-H series	-40~+85°C				
Test Methods and Remarks	0 to 40°C for the product with taping.					
3. Rated current						
0 :5 1)/1	MA series	West of the Control o				
Specified Value	MA-H series	Within the specified tolerance				
4. Inductance						
Specified Value	MA series	Within the appoint televanee				
Specified value	MA-H series	Within the specified tolerance				
Test Methods and Remarks	Measuring equipment : LCR Meter (HP 4285A or equivalent) Measuring frequency : 2MHz、1V					
5. DC Resistance						
5. DO Resistance	MA series					
Specified Value		Within the specified tolerance				
Test Methods and Remarks	MA-H series Measuring equipment : DC ohmmeter (HIOKI 3227 or equivalent)					
6. Self resonance fr	requency					
Specified Value	MA series					
Specified value	MA-H series					
7. Temperature cha	racteristic					
Specified Value	MA series	Inductance change : Within ±15%				
opecined value	MA-H series	Inductance change . Within 2.10%				
Test Methods and Remarks	Measurement of inductance shall be taken at With reference to inductance value at +20°0	•				
8. Resistance to fle	vure of substrate					
o. Resistance to ne	MA series					
Specified Value	MA-H series	No damage				
Test Methods and Remarks		resin Force Rod 10 R230 Board				
		R5 Test Sample 45±2mm				

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9. Insulation resista	nce : between wires		
0 :0 17/1	MA series		
Specified Value	MA-H series		
10. Insulation resist	ance : between wire and core		
	MA series		
Specified Value	MA-H series	-	
	L	I	
11. Withstanding vol	Itage : between wire and core		
	MA series		
Specified Value	MA-H series	_	
		<u> </u>	
12. Adhesion of terr	minal electrode		
12. Addiesion of cert	MA series		
Specified Value	MA-H series	No abnormality.	
	The test samples shall be soldered to the test	t heard by the reflew	
Test Methods and	Applied force : 10N to X and	•	
Remarks	Duration : 5s.		
	Solder cream thickness : 0.12mm.		
13. Resistance to vi	bration		
Specified Value	MA series	Inductance change : Within ±10%	
Specified Value	MA-H series	No significant abnormality in appearance.	
	The test samples shall be soldered to the tes		
	Then it shall be submitted to below test cond	litions.	
	Frequency Range 10~55Hz Total Amplitude 1.5mm (May not	exceed acceleration 196m/s²)	
Test Methods and	Sweeping Method 10Hz to 55Hz to		
Remarks	X		
	Time	For 2 hours on each X, Y, and Z axis.	
	Z		
	Recovery : At least 2hrs of recovery under the	ne standard condition after the test, followed by the measurement within 48hrs.	
14. Solderability			
Specified Value	MA series	At least 90% of surface of terminal electrode is covered by new solder.	
•	MA-H series	, and a second of the second o	
		then immersed in molten solder as shown in below table.	
Test Methods and	Flux : Methanol solution containing rosin 25%. Solder Temperature 245±5°C	٦	
Remarks	Time $5\pm 0.5 \text{ sec.}$	-	
	XImmersion depth : All sides of mounting ter	ப minal shall be immersed.	
15. Resistance to so	oldering heat		
	MA series	Inductance change : Within ±10%	
Specified Value	MA-H series	No significant abnormality in appearance.	
		I en at 230°C for 40 seconds, with peak temperature at 260 \pm 0 $/\pm$ 5°C for 5 seconds, 3 times.	
Test Methods and	Test board material : Glass epoxy-resin		
Remarks	Test board thickness : 1.0mm		
	Recovery : At least 2hrs of recovery under the	ne standard condition after the test, followed by the measurement within 48hrs.	

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16. Thermal shock MA series Inductance change: Within ±10% Specified Value No significant abnormality in appearance. MA-H series The test samples shall be soldered to the test board by the reflow. The test samples shall be placed at specified temperature for specified time by step 1 to step 4 as shown in below table in sequence. The temperature cycle shall be repeated 100 cycles. Conditions of 1 cycle Duration (min) Step Temperature (°C) Test Methods and -40±3 30 ± 3 1 Remarks 2 Room temperature Within 3 3 +85±2 30 ± 3 Room temperature Within 3 Recovery: At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs. 17. Damp heat MA series Inductance change: Within ±10% Specified Value No significant abnormality in appearance. MA-H series The test samples shall be soldered to the test board by the reflow. The test samples shall be placed in thermostatic oven set at specified temperature and humidity as shown in below table. Test Methods and 60±2°C Temperature Remarks Humidity 90~95%RH 500+24/-0 hour Time Recovery: At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs. 18. Loading under damp heat MA series Inductance change : Within $\pm 10\%$ Specified Value No significant abnormality in appearance. MA-H series The test samples shall be soldered to the test board by the reflow. The test samples shall be placed in thermostatic oven set at specified temperature and humidity and applied the rated current continuously as shown in below table. Test Methods and Temperature 60±2°C Remarks Humidity 90∼95%RH Applied current Rated current Time 500+24/-0 hour Recovery: At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs. 19. Low temperature life test MA series Inductance change : Within $\pm 10\%$ Specified Value No significant abnormality in appearance. MA-H series The test samples shall be soldered to the test board by the reflow. After that, the test samples shall be placed at test conditions as shown in below table. Test Methods and Remarks Temperature -40±2°C Time 500+24/-0 hour Recovery: At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs. 20. High temperature life test MA series Inductance change: Within ±10% Specified Value No significant abnormality in appearance. MA-H series The test samples shall be soldered to the test board by the reflow. After that, the test samples shall be placed at test conditions as shown Test Methods and in below table 85 ± 2°C Remarks Temperature 500+24/-0 hour Time Recovery: At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs. 21. Loading at high temperature life test MA series

Specified Value

MA-H series

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22. Standard condit	ion	
Specified Value	MA series	Standard test condition : Unless otherwise specified, temperature is 20±15°C and 65±20% of relative humidity.
	MA-H series	When there is any question concerning measurement result: In order to provide correlation data, the test shall be condition of $20\pm2^{\circ}C$ of temperature, $65\pm5\%$ relative humidity. Inductance is in accordance with our measured value.

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METAL CORE WIRE-WOUND CHIP POWER INDUCTORS (MCOIL™ MA SERIES / MCOIL™ MA-H SERIES)

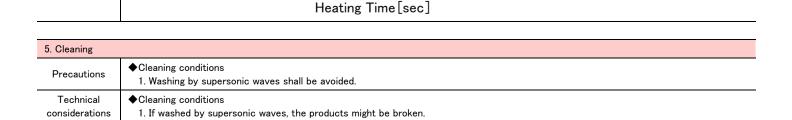
PRECAUTIONS

1. Circuit Design Operating environment 1. The products described in this specification are intended for use in general electronic equipment, (office supply equipment, telecommunications systems, measuring equipment, and household equipment). They are not intended for use in mission-critical equipment or systems requiring special quality and high reliability (traffic systems, safety equipment, aerospace systems, nuclear control systems and medical equipment including life-support systems,) where product failure might result in loss of life, injury or damage. For such uses, contact TAIYO YUDEN Sales Department in advance.

2. PCB Design	
Precautions	◆Land pattern design 1. Please refer to a recommended land pattern.
Technical considerations	 ◆Land pattern design Surface Mounting • Mounting and soldering conditions should be checked beforehand. • Applicable soldering process to this products is reflow soldering only.

3. Considerations	3. Considerations for automatic placement				
Precautions	◆Adjustment of mounting machine 1. Excessive impact load should not be imposed on the products when mounting onto the PC boards. 2. Mounting and soldering conditions should be checked beforehand.				
Technical considerations	◆Adjustment of mounting machine 1. When installing products, care should be taken not to apply distortion stress as it may deform the products.				

4. Soldering ◆Reflow soldering 1. Please contact any of our offices for a reflow soldering, and refer to the recommended condition specified. 2. The product shall be used reflow soldering only. Precautions 3. Please do not add any stress to a product until it returns in normal temperature after reflow soldering. ◆Lead free soldering 1. When using products with lead free soldering, we request to use them after confirming adhesion, temperature of resistance to soldering heat, soldering etc sufficiently. ◆Reflow soldering 1. If products are used beyond the range of the recommended conditions, heat stresses may deform the products, and consequently degrade the reliability of the products. Recommended reflow condition (Pb free solder) 5sec max 300 - Peak∶260+0/−5°C Temperature [°C] 150~180 Technical 200 considerations 40sec max 100 230°C min $90 \pm 30 sec$



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This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our specification. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (http://www.ty-top.com/).

6. Handling ◆Handling 1. Keep the product away from all magnets and magnetic objects. ◆Breakaway PC boards (splitting along perforations) 1. When splitting the PC board after mounting product, care should be taken not to give any stresses of deflection or twisting to the board. 2. Board separation should not be done manually, but by using the appropriate devices. ◆Mechanical considerations Precautions 1. Please do not give the product any excessive mechanical shocks. 2. Please do not add any shock and power to a product in transportation. ◆Pick-up pressure 1. Please do not push to add any pressure to a winding part. Please do not give any shock and push into a ferrite core exposure part. ◆Packing 1. Please avoid accumulation of a packing box as much as possible. 1. There is a case that a characteristic varies with magnetic influence. ◆Breakaway PC boards (splitting along perforations) 1. The position of the product on PCBs shall be carefully considered to minimize the stress caused from splitting of the PCBs. ◆Mechanical considerations Technical 1. There is a case to be damaged by a mechanical shock. considerations 2. There is a case to be broken by the handling in transportation. ◆Pick-up pressure 1. Damage and a characteristic can vary with an excessive shock or stress. **♦**Packing 1. If packing boxes are accumulated, that could cause a deformation on packing tapes or a damage on the products.

7. Storage conditions	
Precautions	 ♦ Storage 1. To maintain the solderability of terminal electrodes and to keep the packing material in good condition, temperature and humidity in the storage area should be controlled. • Recommended conditions Ambient temperature : 0~40°C Humidity : Below 70% RH • The ambient temperature must be kept below 30°C. Even under ideal storage conditions, solderability of products electrodes may decrease as time passes. For this reason, product should be used within 6 months from the time of delivery. In case of storage over 6 months, solderability shall be checked before actual usage.
Technical considerations	◆Storage 1. Under a high temperature and humidity environment, problems such as reduced solderability caused by oxidation of terminal electrodes and deterioration of taping/packaging materials may take place.



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

Наши преимущества:

- 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);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- 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.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- 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

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: <u>org@eplast1.ru</u>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина,

дом 2, корпус 4, литера А.