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 January 2021. 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.)
 (2) Million
- (6) Military equipment
- Any other equipment requiring extremely high levels of safety and/or reliability equal to the equipment listed above

*Notes:

- 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

REFLOW

Unit:mm(inch)

METAL WIRE-WOUND CHIP POWER INDUCTORS (MCOIL™ MB-H SERIES)

PARTS N	NUMBER								
MВ	кк	1	6 0	8 H		R	0	М	
1	2		3)	5	•	6	1
①Series na	ame								

Code	Series name
MB	Metal Wire-Wound chip power inductor

②Dimensions(T)

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

③Dimensions(L×W)

Code	Type(inch)	Dimensions (L×W)[mm]		
1608	1608(0603)	1.6 × 0.8		
2520	2520(1008)	2.5 × 2.0		

*	Operating	Temp.:-40~+125°C	(Including	self-generated l	neat)

 $\triangle = Blank space$

④Packaging	
Code	Packaging
Н	Taping(Special specification)

5Nominal inductance

Code (example)	Nominal inductance [μ H]
R24	0.24
1R0	1.0
4R7	4.7

ℜR=Decimal point

6 Inductance tolerance

Code	Inductance tolerance				
М	±20%				
N	±30%				

⑦Internal code

STANDARD E	KTERNAL DIMENSION	NS / STANDARD QU	ANTITY									
			Recommended	Land Patterns								
. L	w		Surface Mounti	ng								
*				 Mounting and soldering conditions should be checked beforehand. 								
				dering process to the	se products is	reflow solde	ring only.					
					Туре	А	В	С				
			c	1608	0.55	0.70	1.00					
←e →					2520	0.60	1.50	2.00				
			K A K B					Unit:mm				
T	I	W	т	_		Standard qua	antity[pcs]					
Туре	L	vv	1	e	Paper tape		Embossed tape					
MBKK1608	1.6 ± 0.2	0.8±0.2	1.0 max	0.45 ± 0.15			3000					
	(0.063 ± 0.008)	(0.031 ± 0.008)	(0.040 max)	(0.040 max) (0.016 ± 0.006)								
MBMK2520	2.5 ± 0.2	2.0±0.2	1.2 max	0.5 ± 0.2	_		300	0				
WIDWIK2320	(0.098 ± 0.008)	(0.079 ± 0.008)	(0.047 max)	(0.020 ± 0.008)	_		3000					

PARTS NUMBER

MBKK1608H(0603) type [Thickness:1.0mm max.]

		New Section 1 States to a section of the		Self-resonant		Rated current	Manager	
Parts number			DC Resistance [Ω](max.)	Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[MHz]		
MBKK1608HR24N	RoHS	0.24	±30%	-	0.049	1,650	2,300	1.0
MBKK1608HR47N	RoHS	0.47	±30%	-	0.104	1,100	1,400	1.0
MBKK1608HR68N	RoHS	0.68	±30%	-	0.120	950	1,200	1.0
MBKK1608H1R0M	RoHS	1.0	±20%	-	0.150	800	1,150	1.0
MBKK1608H1R5M	RoHS	1.5	±20%	-	0.200	650	1,000	1.0
MBKK1608H2R2M	RoHS	2.2	±20%	-	0.345	520	750	1.0
MBKK1608H3R3M	RoHS	3.3	±20%	-	0.512	450	600	1.0
MBKK1608H4R7M	RoHS	4.7	±20%	-	0.730	370	500	1.0

MBMK2520H(1008) type [Thickness:1.2mm max.]

		Nominal inductance		Self-resonant	DC Resistance	Rated current	※) [mA](max.)	Measuring
Parts number			[Ω] (max.)	Saturation current Idc1	Temperature rise current Idc2	frequency[MHz]		
MBMK2520HR24N	RoHS	0.24	±30%	-	0.026	4,750	3,500	1.0
MBMK2520HR47N	RoHS	0.47	±30%	-	0.042	3,900	2,600	1.0
MBMK2520HR68N	RoHS	0.68	±30%	-	0.058	3,150	2,150	1.0
MBMK2520H1R0M	RoHS	1.0	±20%	-	0.072	2,350	1,850	1.0
MBMK2520H1R5M	RoHS	1.5	±20%	-	0.106	2,050	1,500	1.0
MBMK2520H2R2M	RoHS	2.2	±20%	-	0.159	1,800	1,250	1.0
MBMK2520H3R3M	RoHS	3.3	±20%	-	0.260	1,400	970	1.0
MBMK2520H4R7M	RoHS	4.7	±20%	-	0.380	1,150	800	1.0

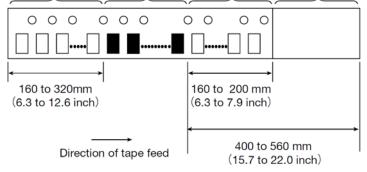
%) The saturation current value (Idc1) is the DC current value having inductance decrease down to 30%. (at 20 $^\circ \! C)$

%) The temperature is current value (dot) is the DC current value having temperature increase by 40° C. (at 20° C) %) The rated current value is following either Idc1 or Idc2, which is the lower one.

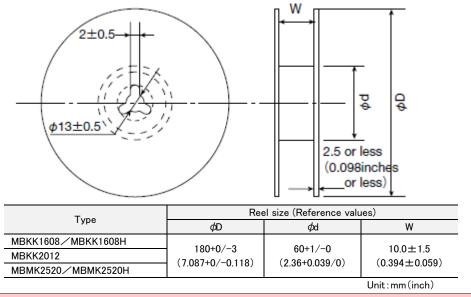
METAL WIRE-WOUND CHIP POWER INDUCTORS (MCOIL[™] MB SERIES ∕ MCOIL[™] MB-H SERIES)

PACKAGING

Minimum Quantity					
Minimum Quantity	Standard Quant	ity [nee]			
Туре	Standard Quant Tape & F				
MBKK1608/MBKK1608H	3000				
MBKK2012	3000				
MBMK2520/MBMK2520H	3000				
Tape Material					
Embossed Tape					
	Spra	tape ocket hole	Chip Filled	0)	
Taping dimensions	tape Chip	cavity	Chip		
Embossed tape 8mm wide (0.31 ϕ 1.5+0.1					
Sprocket hole (\$\phi 0.059 + 0.0\$)	1. (0.315±0.008)		O O O O O O Electrode (bottom view)		
Turne	Chip	cavity	Insertion pitch	Tape th	ickness
Туре	A	В	F	Т	К
MBKK1608/MBKK1608H	1.1	1.9	4.0±0.1	0.25±0.05	1.2 max
	(0.043)	(0.075)	(0.157±0.004)	(0.010 ± 0.002)	(0.047 max)
MBKK2012	1.45 (0.057)	2.2	4.0 ± 0.1 (0.157 ± 0.004)	0.25 ± 0.05 (0.010 \pm 0.002)	1.2 max (0.047 max)
	2.3	(0.087) 2.8	(0.157 ± 0.004) 4.0 ± 0.1	0.3±0.05	(0.047 max) 1.45 max
			(0.157 ± 0.004)	(0.012 ± 0.002)	(0.057 max)
MBMK2520/MBMK2520H	(0.091)	(0.110)	(0.137 ± 0.004)		
MBMK2520/MBMK2520H	(0.091)	(0.110)	(0.137 ± 0.004)		Unit:mm(inch)
	(0.091)	(0.110)	(0.137±0.004)		
MBMK2520/MBMK2520H DLeader and Blank portion Blank portions Chip c			(0.137±0.004)		

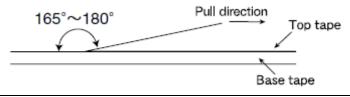






(6) Top Tape Strength

The top The top tape requires a peel-off force of 0.2 to 0.7N in the direction of the arrow as illustrated below.





METAL WIRE-WOUND CHIP POWER INDUCTORS (MCOIL[™] MB SERIES ∕ MCOIL[™] MB-H SERIES)

RELIABILITY DATA

1. Operating Temperature Range		
Specified Value	MB series	$-40 \sim +105^{\circ}C$
	MB-H series	-40~+125°C
Test Methods and Remarks	Including self-generated heat	

2. Storage Tempera	2. Storage Temperature Range		
Specified Value	MB series	-40~+85°C	
	MB-H series	$-40 \sim +85$ C	
Test Methods and Remarks	0 to 40°C for the product with taping.		

3. Rated current			
Specified Value	MB series	Weak in all a new side of a language	
	MB-H series	Within the specified tolerance	

4. Inductance	4. Inductance			
0 :5 1)/1	MB series MB-H series		Within the specified tolerance	
Specified Value				
Test Methods and Remarks	Measuring equipment : LCR Meter (HP / Measuring frequency : 1MHz、1V		285A or equivalent)	

	5. DC Resistance			
	Specified Value	MB series		
		MB-H series	Within the specified tolerance	
	Test Methods and Remarks	Measuring equipment : DC ohmmeter(HI	g equipment : DC ohmmeter(HIOKI 3227 or equivalent)	

6. Self resonance frequency		
Specified Value	MB series	
	MB-H series	

7. Temperature characteristic			
	MB series		
Specified Value	MB-H series	Inductance change : Within $\pm 15\%$	
Test Methods and Remarks	MB series : Measurement of inductance shall be taken at temperature range within $-40^{\circ}C \sim +105^{\circ}C$. With reference to inductance value at $+20^{\circ}C$, change rate shall be calculated.		
	MB-H series : Measurement of inductance shall be taken at With reference to inductance value at +20°C	temperature range within -40° C \sim $+125^{\circ}$ C. C., change rate shall be calculated.	

8. Resistance to flexure of substrate				
	MB series MB-H series		No. down own	
Specified Value			No damage	No damage
Test Methods and Remarks	until deflection of the test board reaches to		2 mm. mm (1608:0.8mm)	s illustrated below, apply force in the direction of the arrow indicating Force Rod
				R5 Test Sample

9. Insulation resistance : between wires		
Specified Value	MB series	
	MB-H series	

10. Insulation resistance : between wire and core		
Specified Value	MB series	DC25V 100kΩ min
	MB-H series	DC50V 100kΩ min

11. Withstanding voltage : between wire and core		
Specified Value	MB series	
	MB-H series	-

12. Adhesion of terminal electrode			
Specified Value	MB series MB-H series		No abnormality.
Specified value			
	The test samples shall be soldered to the test board by the reflow.		st board by the reflow.
Test Methods and	Applied force : 10N (1608:5N) to X and Y directions.) to X and Y directions.
Remarks	Duration	: 5s.	
	Solder cream thickness	: 0.1mm.	

13. Resistance to vi	bra	tion					
On a sife of Malue		MB series			Inductance change : Within $\pm 10\%$		
Specified Value	MB-H series				No significant abnormality in appearance.		
		he test samples shall be s hen it shall be submitted t			-		
		Frequency Range	10~55Hz				
Test Methods and		Total Amplitude	1.5mm	(May not	exceed acceleration 196m/s ²)		
Remarks		Sweeping Method	10Hz to	10Hz to 55Hz to 10Hz for 1min.			
Tremarks		Time	X Y		For 2 hours on each X, Y, and Z axis.		
	R	ecovery : At least 2hrs of	Z	/ under tl	ne standard condition after the test, followed by the	e measurement within 48hrs.	

14. Solderability						
Specified Value	MB series		At least 90% of surface of terminal electrode is covered by new solder.			
	MB-H series					
	The test samples shall be d Flux : Methanol solution co		then immersed in molten solder as shown in below table.			
Test Methods and Remarks	Solder Temperature	245±5°C				
	Immersing speed	25mm/s				
	Time	5±0.5 sec.				
	XImmersion depth : All side	es of mounting ter	minal shall be immersed.			



15. Resistance to se	15. Resistance to soldering heat						
Specified Value	MB series	Inductance change : Within $\pm 10\%$					
Specified value	MB-H series	No significant abnormality in appearance.					
	The test sample shall be exposed to reflow oven at 230°C for 40 seconds, with peak temperature at $260+0/-5$ °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 standard condition after the test, followed by the measurement within 48hrs.						

16. Thermal shock									
Specified Value	MB series			Inductance cha	Inductance change : Within $\pm 10\%$				
Specified value	MB-H se	eries	No significant a	abnorm	ality in app	bearance.			
	MB serie				MB-H series:				
	The test	samples shall be soldered	to the tes	st board by the re	eflow.	The test	samples shall be soldered	to the test board by the reflo	
	The test	t samples shall be placed	d at spec	ified temperatur	e for	The test	t samples shall be placed	l at specified temperature f	
	specified	I time by step 1 to step	4 as sho	wn in below table in specified time by step 1 to step 4 as shown in below table i					
	sequence	e. The temperature cycle s	hall be rep	peated 100 cycle	s.	sequence. The temperature cycle shall be repeated 100 cycles.			
T . M		Conditions of 1	1 cycle				Conditions of 1	cycle	
Test Methods and Remarks	Step	Temperature (°C)	Dur	ation (min)		Step	Temperature (°C)	Duration (min)	
Remarks	1	-40 ± 3		30±3		1	-40 ± 3	30±3	
	2	Room temperature	١	Within 3		2	Room temperature	Within 3	
	3	$+85\pm2$		30±3		3	$+125\pm2$	30±3	
	4	Room temperature	١	Within 3		4	Room temperature	Within 3	
	Recovery	y : At least 2hrs of recove	ry under t	he standard con	dition	Recovery : At least 2hrs of recovery under the standard condition			
	after the	test, followed by the meas	surement v	within 48hrs.		after the	test, followed by the meas	urement within 48hrs.	

17. Damp heat						
0 :5 1)/ 1	MB series		Inductance change : Within $\pm 10\%$			
Specified Value	MB-H series		No significant abnorm	ality in appearance.		
	MB series:			MB-H series:		
	The test samples s	shall be soldered to the tes	st board by the reflow.	The test samples shall be soldered to the test board by the reflow.		
	The test samples	shall be placed in therr	mostatic oven set at	The test samples shall be placed in thermostatic oven set at		
Test Methods and	specified temperat	ure and humidity as shown	in below table.	specified temperature and humidity as shown in below table.		
Remarks	Temperature	60±2°C		Temperature	85±2°C	
	Humidity	90~95%RH		Humidity	85%RH	
	Time	1000+24/-0 hour		Time	1000+24/-0 hour	
	Recovery : At leas	t 2hrs of recovery under t	he standard condition	Recovery : At least 2hrs of recovery under the standard condition		
	after the test, follo	wed by the measurement	within 48hrs.	after the test, follo	owed by the measurement within 48hrs.	

18. Loading under damp heat							
Specified Value	MB series		Inductance change : Within $\pm 10\%$				
Specified Value	MB-H series		No significant abnorm	No significant abnormality in appearance.			
Test Methods and Remarks	The test samples s	all be soldered to the tes shall be placed in thern re and humidity and appl wn in below table. 60±2°C 90~95%RH Rated current 1000+24/-0 hour	nostatic oven set at	The test samples s	all be soldered to the test shall be placed in thermo re and humidity and applie wn in below table. 85±2°C 85%RH Rated current 1000+24/-0 hour	ostatic oven set at	
	•	2hrs of recovery under t		Recovery : At least 2hrs of recovery under the standard condition			
after the test, followed by the measurement wit			within 48hrs.	after the test, follow	ed by the measurement wi	thin 48hrs.	

19. Low temperatur	19. Low temperature life test						
Specified Value	MB series		Inductance change : Within $\pm 10\%$				
	MB-H series		No significant abnormality in appearance.				
	The test samples sha	all be soldered to the tes	t board by the reflow. After that, the test samples shall be placed at test conditions as shown				
Test Methods and	in below table.						
Remarks	Temperature	$-40\pm2^{\circ}C$					
	Time	1000+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						
Care of Good Makes	MB series		Inductance change : Within $\pm 10\%$			
Specified Value	MB-H series		No significant abnormality in appearance.			
	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.					
Remarks	Temperature	85±2°C				
	Time	1000+24/-0 hour				
Recovery : At least 2hrs of recovery under the standard condition after the test, followed by the measurement with						

21. Loading at high temperature life test				
Specified Value	MB series			
	MB-H series			

22. Standard condit	22. Standard condition						
Specified Value	MB series	Standard test condition : Unless otherwise specified, temperature is $20\pm15^{\circ}$ C and $65\pm20\%$ of relative humidity. When there is any question concerning measurement result: In order to provide correlation					
Specified Value	MB-H series	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.					

METAL WIRE-WOUND CHIP POWER INDUCTORS (MCOIL[™] MB SERIES ∕ MCOIL[™] MB-H SERIES)

PRECAUTIONS

1. Circuit Design	
Precautions	 Operating environment 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 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	4. Soldering	
Precautions	 Reflow soldering Please contact any of our offices for a reflow soldering, and refer to the recommended condition specified. The product shall be used reflow soldering only. Please do not add any stress to a product until it returns in normal temperature after reflow soldering. Lead free soldering When using products with lead free soldering, we request to use them after confirming adhesion, temperature of resistance to soldering heat, soldering etc sufficiently. 	
Technical considerations	Reflow soldering 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) 300 5sec max 200 150~180 150~180 40sec max 90±30sec 200°C min Heating Time[sec] Heating Time[sec] Additional products are used beyond the range of the recommended conditions, heat stresses may deform the products, and consequently degrade the reliability of the products. 	

5. Cleaning	
Precautions	 ♦ Cleaning conditions 1. Washing by supersonic waves shall be avoided.
Technical considerations	 Cleaning conditions 1. If washed by supersonic waves, the products might be broken.



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

7. Storage condit	 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.



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