Please read this notice before using the TAIYO YUDEN products.

REMINDERS

Product information in this catalog is as of October 2018. All of the contents specified herein are subject to change without notice due to technical improvements, 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.

- Please contact TAIYO YUDEN for further details of product specifications as the individual product specification sheets are available.
- Please conduct validation and verification of our products in actual condition of mounting and operating environment before using our products.
- The products listed in this catalog are intended for 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 medical equipment classified as Class I or II by IMDRF. Please be sure to contact TAIYO YUDEN for further information before using the products for any equipment which may directly cause loss of human life or bodily injury (e.g., transportation equipment including, without limitation, automotive powertrain control system, train control system, and ship control system, traffic signal equipment, disaster prevention equipment, medical equipment classified as Class III by IMDRF, highly public information network equipment including, without limitation, telephone exchange, and base station).

Please do not incorporate our products into any equipment requiring high levels of safety and/or reliability (e.g., aerospace equipment, aviation equipment*, medical equipment classified as Class IV by IMDRF, nuclear control equipment, undersea equipment, military equipment).

*Note: 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.

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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.

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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.

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



PARTS NUMBER							
<u>МВК</u> 1 (2)	K 1 6 0 8	T 1 R 0 Μ Δ ④ ⑤ ⑥ ⑦					
①Series name							
Code	Series	s name					
MB	Metal Wire-Wound	chip power inductor					
②Dimensions(T)		s(T)[mm]					
KK		.0					
MK	1.2						
③Dimensions (L × W)							
Code	Type(inch)	Dimensions (L × W) [mm]					
1608	1608(0603)	1.6 × 0.8					
2012	2012(0805) 2.0×1.25						

2.5 × 2.0

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

 $\Delta =$ Blank space

④Packaging

Code	Packaging
Т	Taping

⑤Nominal inductance

Code (example)	Nominal inductance[
R24	0.24			
1R0	1.0			
4R7	4.7			
%R=Decimal point				

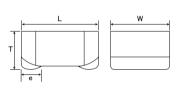
6 Inductance tolerance						
Code	Inductance tolerance					
М	±20%					
N	±30%					

⑦Internal code

Recommended Land Patterns

STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY

2520(1008)



Sur	face	e Mou	Inting								
• Mo	ount	ing a	nd so	Idering	conditio	ons	should	be	ch	eck	e

ed beforehand. • Applicable soldering process to these products is reflow soldering only.

	Туре	А	В	С
С	1608	0.55	0.70	1.00
	2012	0.60	1.00	1.45
	2520	0.60	1.50	2.00

Unit:mm

Туре	· · · · · · · · ·	W	т		Standard qu	iantity[pcs]
туре	L	vv	I	e	Paper tape	Embossed tape
MBKK1608	1.6±0.2	0.8±0.2	1.0 max	0.45 ± 0.15		3000
MDKK1000	(0.063 ± 0.008)	(0.031 ± 0.008)	(0.040 max)	max) (0.016±0.006)		3000
MBKK2012	2.0±0.2	1.25 ± 0.2	1.0 max	0.5±0.2		3000
MIDKKZUIZ	(0.079 ± 0.008)	(0.049 ± 0.008)	(0.040 max)	(0.020 ± 0.008)	_	3000
MBMK2520	2.5±0.2	2.0±0.2	1.2 max	0.5±0.2		3000
MIDINIKZJZU	(0.098 ± 0.008)	(0.079 ± 0.008)	(0.047 max)	(0.020 ± 0.008)	_	3000
						Unit · mm (inch)

INDUCTORS POWER INDUCTORS

2520

MBKK1608(0603) type [Thickness: 1.0mm max.]

	Parts number EHS Nominal inductance Inductance freq			Self-resonant	DO De l'atomo	Rated current	Manager	
Parts number			frequency [MHz](min.)			Temperature rise current Idc2	Measuring frequency[MHz]	
MBKK1608TR24N	RoHS	0.24	±30%	-	0.049	1,650	2,300	1.0
MBKK1608TR47N	RoHS	0.47	±30%	-	0.104	1,100	1,400	1.0
MBKK1608TR68N	RoHS	0.68	±30%	-	0.120	950	1,200	1.0
MBKK1608T1R0M	RoHS	1.0	±20%	-	0.150	800	1,150	1.0
MBKK1608T1R5M	RoHS	1.5	±20%	-	0.200	650	1,000	1.0
MBKK1608T2R2M	RoHS	2.2	±20%	-	0.345	520	750	1.0
MBKK1608T3R3M	RoHS	3.3	±20%	-	0.512	450	600	1.0
MBKK1608T4R7M	RoHS	4.7	±20%	-	0.730	370	500	1.0

MBKK2012(0805) type [Thickness:1.0mm max.]

		Nominal inductance		Self-resonant	DC Resistance	Rated current	Manager	
Parts number	EHS	[µ H]	Inductance tolerance	Inductance tolerance frequency [MHz] (min.)		Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[MHz]
MBKK2012TR24N	RoHS	0.24	±30%	-	0.041	3,000	2,400	1.0
MBKK2012TR47N	RoHS	0.47	±30%	-	0.078	2,000	1,650	1.0
MBKK2012TR68N	RoHS	0.68	±30%	-	0.090	1,800	1,500	1.0
MBKK2012T1R0M	RoHS	1.0	±20%	-	0.106	1,500	1,450	1.0
MBKK2012T1R5M	RoHS	1.5	±20%	-	0.173	1,200	1,100	1.0
MBKK2012T2R2M	RoHS	2.2	±20%	-	0.290	900	850	1.0
MBKK2012T3R3M	RoHS	3.3	±20%	-	0.500	700	650	1.0
MBKK2012T4R7M	RoHS	4.7	±20%	-	0.615	600	600	1.0

MBMK2520(1008) type [Thickness:1.2mm max.]

Manda da kata		New Sector States Access		Self-resonant	DC Resistance	Rated current	Manager	
Parts number	Parts number EHS Nominal inductance [µ H] Inductance tolera		Inductance tolerance	frequency [MHz](min.)	[Ω](max.)	Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[MHz]
MBMK2520TR24N	RoHS	0.24	±30%	-	0.026	4,750	3,500	1.0
MBMK2520TR47N	RoHS	0.47	±30%	-	0.042	3,900	2,600	1.0
MBMK2520TR68N	RoHS	0.68	±30%	-	0.058	3,150	2,150	1.0
MBMK2520T1R0M	RoHS	1.0	±20%	-	0.072	2,350	1,850	1.0
MBMK2520T1R5M	RoHS	1.5	±20%	-	0.106	2,050	1,500	1.0
MBMK2520T2R2M	RoHS	2.2	±20%	-	0.159	1,800	1,250	1.0
MBMK2520T3R3M	RoHS	3.3	±20%	-	0.260	1,400	970	1.0
MBMK2520T4R7M	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°C)

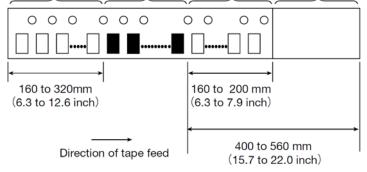
*) The temperature rise current value (Idc2) is the DC current value having temperature increase by 40°C. (at 20°C)

%) The rated current value is following either Idc1 or Idc2, which is the lower one.

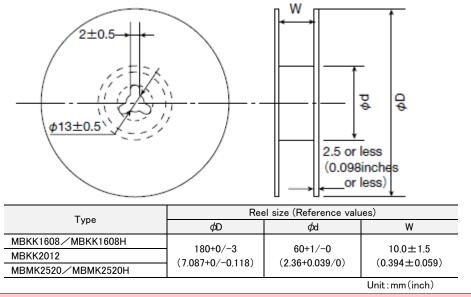
METAL WIRE-WOUND CHIP POWER INDUCTORS (MCOIL[™] MB SERIES ∕ MCOIL[™] MB-H SERIES)

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)	(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)		

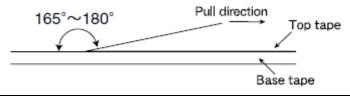






(6) Top Tape Strength

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	$-40 \sim +85 \text{ C}$		
Test Methods and Remarks	0 to 40° C for the product with taping.			

3. Rated current			
Specified Value	MB series		
	MB-H series	Within the specified tolerance	

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

	5. DC Resistance				
	Specified Value	MB series	Webling also and a filled the language		
		MB-H series	Within the specified tolerance		
	Test Methods and Remarks	Measuring equipment : DC ohmmeter(HI	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 ±15%			
Test Methods and	MB series : Measurement of inductance shall be taken at With reference to inductance value at +20°0	temperature range within -40° C \sim $+105^{\circ}$ C. C., change rate shall be calculated.		
Remarks	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	No damage		
Specified Value			No damage			
Test Methods and Remarks	The test samples shall be s until deflection of the test Test board size Test board material Solder cream thickness	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		Na akwawaaliku		
	MB-H series		No abnormality.		
	The test samples shall be so	oldered to the test board by the reflow.			
Test Methods and	and Applied force : 10N (1608:5N) to X and Y directions.				
Remarks	Duration	: 5s.			
	Solder cream thickness	: 0.1mm.			

13. Resistance to vi	bra	tion				
Specified Value	MB series				Inductance change : Within $\pm 10\%$ No significant abnormality in appearance.	
	MB-H series					
	The test samples shall be soldered to the test board by the reflow. Then it shall be submitted to below test conditions.					
	Frequency Range 10		10~55Hz			
Test Methods and		Total Amplitude	1.5mm (May not exceed acceleration 196m/s ²)		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.	
	Recovery : At least 2hrs of recovery under the		/ under tl	ne standard condition after the test, followed by the	e measurement within 48hrs.	

14. Solderability			
Specified Value	MB series		At least 0096 of outfood of terminal electrode is advared by new colder
	MB-H series		At least 90% of surface of terminal electrode is covered by new solder.
	The test samples shall be d Flux : Methanol solution co		then immersed in molten solder as shown in below table.
Test Methods and	Solder Temperature	245±5°C	
Remarks	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 th	ne standard condition after the test, followed by the measurement within 48hrs.

16. Thermal shock									
Specified Value	MB series		Inductance change : Within $\pm 10\%$						
Specified Value	MB-H se	eries		No significant a	No significant abnormality in appearance.				
	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 time by step 1 to step 4 as shown in below				ole in	specified time by step 1 to step 4 as shown in below table in			
	sequence. The temperature cycle shall be rep			peated 100 cycle	s.	sequence. The temperature cycle shall be repeated 100 cycles.			
T . M	Conditions of 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						
Cara different Markers	MB series		Inductance change : Within $\pm 10\%$			
Specified Value	MB-H series		No significant abnorm	No significant abnormality in appearance.		
	MB series:			MB-H series:		
	The test samples s	shall be soldered to the tes	st board by the reflow.	poard by the reflow. The test samples shall be soldered to the test board by the re		
	The test samples	shall be placed in therr	mostatic oven set at	ven 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 least 2hrs of recovery under the 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 specified temperatur	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. Temperature $60\pm 2^{\circ}$ C Humidity $90\sim95\%$ RH			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
	Recovery : At least 2hrs of recovery under the standard condition			Recovery : At least 2hrs of recovery under the standard condition		
	after the test, follow	ed by the measurement v	within 48hrs.	after the test, follow	ed by the measurement wi	thin 48hrs.

19. Low temperatur	e life test		
Specified Value	MB series		Inductance change : Within $\pm 10\%$
Specified value	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 4		ne standard condition after the test, followed by the measurement within 48hrs.



20. High temperatur	20. High temperature life test					
Care of Grad Malva	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			board by the reflow. After that, the test samples shall be placed at test conditions as shown			
Test Methods and	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 within 48hrs.					

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				
	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	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		
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.



Mouser Electronics

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Taiyo Yuden:

MBKK1608T1R5MMBKK1608TR24NMBKK1608TR47NMBKK2012T1R0MMBKK2012T3R3MMBMK2520T1R5MMBMK2520T2R2MMBKK2012T1R5MMBKK2012T4R7MMBKK2012TR47NMBMK2520T4R7MMBMK2520TR47NMBKK2012T2R2MMBKK2012TR24NMBMK2520T3R3MMBMK2520TR68NMBKK1608T1R0MMBKK1608T2R2MMBKK1608T3R3MMBKK1608TR68NMBKK1608T4R7MMBKK2012TR68NMBMK2520T1R0MMBMK2520TR24NMBKK1608T2R24NMBKK1608TR68NMBKK1608T4R7MMBKK2012TR68NMBMK2520T1R0M