Spec Sheet

Multilayer Ceramic Capacitors (High dielectric type) for General Electronic Equipment

MSASL168SB7225KTNB25 (Previous PN: LMK107B7225KA-TR)



Features

- Item Summary2.2uF±10%, 10V,X7R, 0603/1608 (EIA/JIS)
- Lifecycle Stage

Mass Production (Preferred)

Standard packaging quantity (minimum)
 Taping Paper 4000pcs

Products characteristics table

Capacitance	2.2 uF ± 10 %
Case Size (EIA/JIS)	0603/1608
Rated Voltage	10 V
$ an \delta \ (ext{max})$	10 %
Temperature Characteristic (EIA)	X7R
Operating Temp. Range (EIA)	-55 to +125 ℃
High Temperature Loading (% Rated Voltage)	150 %
Insulation Resistance (min)	100 ΜΩ∙μϜ
RoHS Compliance (10 subst.)	Yes
REACH Compliance (233 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

■ External Dimensions

Dimension L	1.6 ±0.10 mm
Dimension W	0.8 ±0.10 mm
Dimension T	0.8 ±0.10 mm
Dimension e	0.35 ±0.25 mm

The data is reference only. Electrical characteristics vary depending on environment or measurement condition. TAIYO YUDEN reserves the right to make change to the data at any time without notice.

Before making final selection, please check product specification.



TAIYO YUDEN

Multi Layer Ceramic Capacitor

-Electrical Characteristics Data-

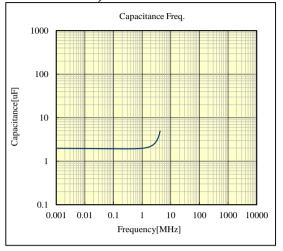
22R2A07

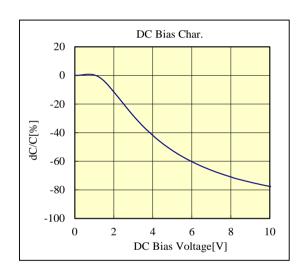
RoHS compliance product

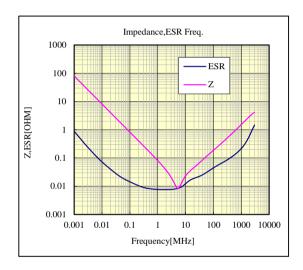
OMSASL168SB7225KTNB25_(LMK107B7225KA-TR)

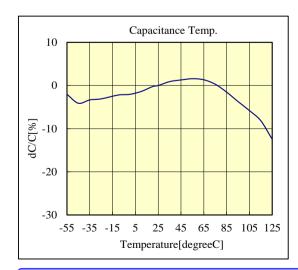
10V 1608 X7R 2.2uF +/- 10% t=0.9mmMAX 10V 0603 X7R 2.2uF +/- 10% t=0.035inchMAX

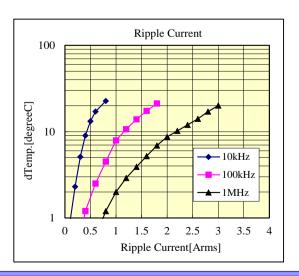












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Before making final selection, please check product specification.

Please read this notice before using the TAIYO YUDEN products.

↑ REMINDERS

■ 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

Our products are intended for general-purpose and standard use in general electronic equipment for consumer (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 the product catalog or the individual product specification sheets, or the equipment approved separately by TAIYO YUDEN.

separately by TAIYO YUDEN.
TAIYO YUDEN has the product series intended for use in the following equipment. Therefore, when using our products for these equipment, please check available applications specified in the product catalog or the individual product specification sheets and use the corresponding products.

	Product Series		
Application	Equipment *1	Category (Part Number Code *2)	Quality Grade *3
Automotive	Automotive Electronic Equipment (POWERTRAIN, SAFETY)	Α	1
	Automotive Electronic Equipment (BODY & CHASSIS, INFOTAINMENT)	С	2
Industrial	Telecommunications Infrastructure and Industrial Equipment	В	2
Medical	Medical Devices classified as GHTF Class C (Japan Class III)	M	2
	Medical Devices classified as GHTF Classes A or B (Japan Classes I or II)	L	3
Consumer	General Electronic Equipment	S	3

- *Notes: 1. Based on the general specifications required for electronic components for such equipment, which are recognized by TAIYO YUDEN, the use of each product series for the equipment is recommended. Please be sure to contact TAIYO YUDEN before using our products for equipment other than those covered by the product series.
 - 2. On each of our part number, the 2nd code from the left is a code indicating the "Category" as shown in the above table. For details, please check the explanatory materials regarding the part numbering system of each of our products.
 - 3. Each product series is assigned a "Quality Grade" from 1 to 3 in order of higher quality. Please do not incorporate a product into any equipment with a higher Quality Grade than the Quality Grade of such product without the prior written consent of TAIYO YUDEN.

2. Equipment Requiring Inquiry

Please be sure to contact TAIYO YUDEN for further information before using our products for the following equipment (excluding intended equipment as specified in the product 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, data-processing 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 *
- (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, 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.
 - 2. 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 our products 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 spec sheet 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 conforming to the product specifications specified in the individual product specification sheets, 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, provided, however, that our products shall be used for general-purpose and standard use in the equipment specified in the product catalog or the individual product specification sheets.

■ TAIYO YUDEN's Official Sales Channel

The contents of this spec sheet 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 spec sheet 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 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.

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M39014/02-1218V M39014/02-1225V M39014/22-0631 D55342E07B523DR-T/R NIN-FB391JTRF NIN-FC2R7JTRF

NMC0402NPO220J50TRPF NMC0402X5R105K6.3TRPF NMC0402X5R224K6.3TRPF NMC0402X7R103J25TRPF

NMC0402X7R392K50TRPF NMC0603NPO201J50TRPF NMC0603NPO330G50TRPF NMC0603NPO331F50TRPF

NMC0603X5R475M6.3TRPF NMC0603X7R333K16TRPF NMC0805NPO220J100TRPF NMC0805NPO820J50TRPF

NMC1206X7R102K50TRPF NMC1206X7R106K10TRPLPF NMC-H0805X7R472K250TRPF C1608C0G2A221J C1608X7R1E334K

C2012C0G2A472J 2220J2K00562KXT CCR06CG153FSV CDR33BX104AKUR CDR33BX683AKUS CGA3E1X7R1C684K

CL10C0R8BB8ANNC M55342H06B20G0R-T/R C1005X5R0G225M C2012X7R2E223K C3216C0G2J272J D55342E07B35E7R-T/R

CDR34BX563BKUS CDR34BX563BKWS NMC0402NPO220F50TRPF NMC0402X7R562J25TRPF NMC0603NPO102J25TRPF

NMC1206X7R332K50TRPF NMC-P1206X7R104K250TRPLPF 726632-1 CGA6M3X7R1H225K CGA5L2X7R2A105K

CGA3E2X8R1H223K CDR33BX823AKUR\M500 CDR33BP132BJUR CDR33BX474AKUR\M500 CDR35BX104BKUR\M500