



Type KX
Safety Standard Certified Lead Type Disc Ceramic Capacitors for General Purpose

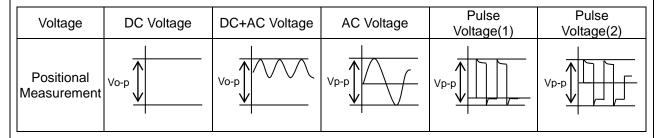
Product specifications in this catalog are as of Mar. 2021, and are subject to change or obsolescence without notice.

Please consult the approval sheet before ordering. Please read rating and Cautions first.

⚠ CAUTION

1. OPERATING VOLTAGE

When DC-rated capacitors are to be used in AC or ripple current circuits, be sure to maintain the Vp-p value of the applied voltage or the Vo-p which contains DC bias within the rated voltage range. When the voltage is started to apply to the circuit or it is stopped applying, the irregular voltage may be generated for a transit period because of resonance or switching. Be sure to use a capacitor within rated voltage containing these irregular voltage.



2. OPERATING TEMPERATURE AND SELF-GENERATED HEAT

Keep the surface temperature of a capacitor below the upper limit of its rated operating temperature range. Be sure to take into account the heat generated by the capacitor itself.

When the capacitor is used in a high-frequency current, pulse current or the like, it may have the self-generated heat due to dielectric-loss. Applied voltage should be the load such as self-generated heat is within 20 °C on the condition of atmosphere temperature 25 °C. When measuring, use a thermocouple of small thermal capacity-K of ϕ 0.1mm and be in the condition where capacitor is not affected by radiant heat of other components and wind of surroundings. Excessive heat may lead to deterioration of the capacitor's characteristics and reliability.(Never attempt to perform measurement with the cooling fan running. Otherwise, accurate measurement cannot be ensured.)

3. TEST CONDITION FOR WITHSTANDING VOLTAGE

(1) TEST EQUIPMENT

Test equipment for AC withstanding voltage should be used with the performance of the wave similar to 50/60 Hz sine wave.

If the distorted sine wave or over load exceeding the specified voltage value is applied, the defective may be caused.

(2) VOLTAGE APPLIED METHOD

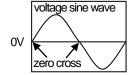
When the withstanding voltage is applied, capacitor's lead or terminal should be firmly connected to the out-put of the withstanding voltage test equipment, and then the voltage should be raised from near zero to the test voltage.

If the test voltage without the raise from near zero voltage would be applied directly to capacitor, test voltage should be applied with the *zero cross. At the end of the test time, the test voltage should be reduced to near zero, and then capacitor's lead or terminal should be taken off the out-put of the withstanding voltage test equipment.

If the test voltage without the raise from near zero voltage would be applied directly to capacitor, the surge voltage may arise, and therefore, the defective may be caused.

*ZERO CROSS is the point where voltage sine wave pass 0V.

- See the right figure -



4. FAIL-SAFE

When capacitor would be broken, failure may result in a short circuit. Be sure to provide an appropriate fail-safe function like a fuse on your product if failure would follow an electric shock, fire or fume.

5. VIBRATION AND IMPACT

Do not expose a capacitor or its leads to excessive shock or vibration during use.

6. SOLDERING

When soldering this product to a PCB/PWB, do not exceed the solder heat resistance specification of the capacitor. Subjecting this product to excessive heating could melt the internal junction solder and may result in thermal shocks that can crack the ceramic element.

When soldering capacitor with a soldering iron, it should be performed in following conditions.

Temperature of iron-tip: 400 °C max. Soldering iron wattage: 50W max. Soldering time: 3.5s max.

7. BONDING, RESIN MOLDING AND COATING

In case of bonding, molding or coating this product, verify that these processes do not affect the quality of capacitor by testing the performance of the bonded, molded or coated product in the intended equipment.

In case of the amount of applications, dryness / hardening conditions of adhesives and molding resins containing organic solvents (ethyl acetate, methyl ethyl ketone, toluene, etc.) are unsuitable, the outer coating resin of a capacitor is damaged by the organic solvents and it may result, worst case, in a short circuit.

The variation in thickness of adhesive, molding resin or coating may cause a outer coating resin cracking and/or ceramic element cracking of a capacitor in a temperature cycling.

8. TREATMENT AFTER BONDING, RESIN MOLDING AND COATING

When the outer coating is hot (over 100 °C) after soldering, it becomes soft and fragile. So please be careful not to give it mechanical stress.

Failure to follow the above cautions may result, worst case, in a short circuit and cause fuming or partial dispersion when the product is used.

9. OPERATING AND STORAGE ENVIRONMENT

The insulating coating of capacitors does not form a perfect seal; therefore, do not use or store capacitors in a corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. And avoid exposure to moisture. Before cleaning, bonding, or molding this product, verify that these processes do not affect product quality by testing the performance of a cleaned, bonded or molded product in the intended equipment. Store the capacitors where the temperature and relative humidity do not exceed -10 to 40 °C and 15 to 85%.

Use capacitors within 6 months after delivered. Check the solderability after 6 months or more.

10. LIMITATION OF APPLICATIONS

Please contact us before using our products for the applications listed below which require especially high reliability for the prevention of defects which might directly cause damage to the third party's life, body or property.

- 1. Aircraft equipment
- 2. Aerospace equipment
- 3. Undersea equipment
- 4. Power plant control equipment
- 5. Medical equipment
- 6. Transportation equipment (vehicles, trains, ships, etc.)
- 7. Traffic signal equipment
- 8. Disaster prevention / crime prevention equipment
- 9. Data-processing equipment exerting influence on public
- 10. Application of similar complexity and/or reliability requirements to the applications listed in the above.

NOTICE

1. CLEANING (ULTRASONIC CLEANING)

To perform ultrasonic cleaning, observe the following conditions.

Rinse bath capacity: Output of 20 watts per liter or less.

Rinsing time: 5 min maximum.

Do not vibrate the PCB/PWB directly.

Excessive ultrasonic cleaning may lead to fatigue destruction of the lead wires.

2. CAPACITANCE CHANGE OF CAPACITORS

· Class 1 capacitors

Capacitance might change a little depending on a surrounding temperature or an applied voltage. Please contact us if you use for the strict time constant circuit.

· Class 2 and 3 capacitors

Class 2 and 3 capacitors like temperature characteristic B, E and F have an aging characteristic, whereby the capacitor continually decreases its capacitance slightly if the capacitor leaves for a long time. Moreover, capacitance might change greatly depending on a surrounding temperature or an applied voltage. So, it is not likely to be able to use for the time constant circuit.

Please contact us if you need a detail information.

3. PERFORMANCE CHECK BY EQUIPMENT

Before using a capacitor, check that there is no problem in the equipment's performance and the specifications.

Generally speaking, CLASS 2 ceramic capacitors have voltage dependence characteristics and temperature dependence characteristics in capacitance. So, the capacitance value may change depending on the operating condition in a equipment. Therefore, be sure to confirm the apparatus performance of receiving influence in a capacitance value change of a capacitor, such as leakage current and noise suppression characteristic.

Moreover, check the surge-proof ability of a capacitor in the equipment, if needed, because the surge voltage may exceed specific value by the inductance of the circuit.

Λ note

- 1.Please make sure that your product has been evaluated in view of your specifications with our product being mounted to your product.
- 2. You are requested not to use our product deviating from this specification.

EGD08E

1. Application

This specification is applied to Safety Standard Certified Lead Type Disc Ceramic Capacitors Type KX used for General Electric equipment.

Type KX is Safety Standard Certified capacitors of Class X1,Y1.

Do not use these products in any automotive power train or safety equipment including battery chargers for electric vehicles and plug-in hybrids.

Approval standard and certified number

	Standard number	*Certified number	AC Rated volt. V(r.m.s.)
UL	UL60384-14	E37921	
CSA	CSA E60384-14	1343810	
VDE	IEC60384-14, EN60384-14	40002831	
BSI	EN62368-1, IEC60384-14, EN60384-14	KM 37901	
SEMKO		1905545	X1:440
DEMKO	1500000444	D-07250	Y1:250
FIMKO	IEC60384-14, EN60384-14	FI 40129	
NEMKO	L100304-14	P19223458	
ESTI		21.0060	
IMQ	EN60384-14	V4069	
CQC	GB/T6346.14	CQC04001011643	

^{*}Above Certified number may be changed on account of the revision of standards and the renewal of certification.

2. Rating

2-1. Operating temperature range

-40 ~ +125°C

2-2. Part number configuration

ex.) <u>DE1</u> E3 ΚX 472 N01F Product Temperature Type Capacitance Capacitance **Packing** Individual Lead characteristic code style code specification name tolerance code

• Product code

DE1 denotes X1,Y1 class.

• Temperature characteristic

Code	Temperature characteristic
B3	В
E3	E

Please confirm detailed specification on [Specification and test methods].

• Type name

This denotes safety certified type name Type KX.

• Capacitance

The first two digits denote significant figures; the last digit denotes the multiplier of 10 in pF. ex.) In case of 472.

$$47 \times 10^2 = 4700 pF$$

• Capacitance tolerance

Please refer to [Part number list].

• Lead code

Code	Lead style						
A*	Vertical crimp long type						
B*	Vertical arims about turns	Lead Length: 5mm					
J*	Vertical crimp short type	Lead Length: 3.5mm					
N*	Vertical crimp taping type						

^{*} Please refer to [Part number list]

• Packing style code

9 - 7	
Code	Packing type
В	Bulk type
Α	Ammo pack taping type

• Individual specification

In case part number cannot be identified without 'individual specification', it is added at the end of part number.

ond of partitions	
Code	Specification
N01F	 Halogen free (Br ≤ 900ppm, Cl ≤ 900ppm) Br + Cl ≤ 1500ppm CP wire

Note) Murata part numbers might be changed depending on lead code or any other changes. Therefore, please specify only the type name(KX) and capacitance of products in the parts list when it is required for applying safety standard of electric equipment.

3. Marking

Nominal capacitance : 3 digit system

Capacitance tolerance : Code
Type name : KX
Rated voltage mark : 250~
Class code : X1Y1
Halogen free mark : HF

Manufacturing year : Letter code(The last digit of A.D. year.)

Manufacturing month : Code

Feb./Mar. \rightarrow 2 Aug./Sep. \rightarrow 8 Apr./May \rightarrow 4 Oct./Nov. \rightarrow O Jun./Jul. \rightarrow 6 Dec./Jan. \rightarrow D

Company name code : (Made in Thailand)

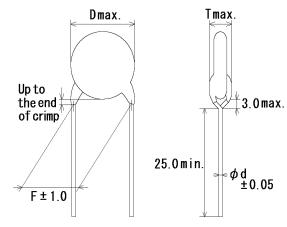
(Example)

472M KX250~ X1Y1 H 5D (M15

ETKX09H

4. Part number list

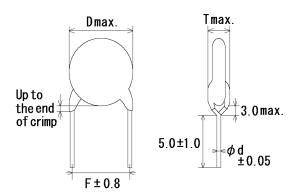
·Vertical crimp long type (Lead code:A*)



Note) The mark '*' of lead code differ from lead spacing(F) and lead diameter(d).
Please see the following list about details.

T.C.	Сар.	ар. Сар.	Customer Part Number	Murata Part Number	Dir	nensi	Lead	Pack		
1.0.	(pF) tol. Customer Part Number		Murata Part Number	D	Т	F	d	code	qty. (pcs)	
В	100	±10%		DE1B3KX101KA4BN01F	7.0	7.0	10.0	0.6	A4	250
В	150	±10%		DE1B3KX151KA4BN01F	7.0	7.0	10.0	0.6	A4	250
В	220	±10%		DE1B3KX221KA4BN01F	8.0	7.0	10.0	0.6	A4	250
В	330	$\pm 10\%$		DE1B3KX331KA4BN01F	7.0	7.0	10.0	0.6	A4	250
В	470	$\pm 10\%$		DE1B3KX471KA4BN01F	7.0	7.0	10.0	0.6	A4	250
В	680	$\pm 10\%$		DE1B3KX681KA4BN01F	8.0	7.0	10.0	0.6	A4	250
Е	1000	$\pm 20\%$		DE1E3KX102MA4BN01F	7.0	7.0	10.0	0.6	A4	250
Е	1500	$\pm 20\%$		DE1E3KX152MA4BN01F	8.0	7.0	10.0	0.6	A4	250
Е	2200	$\pm 20\%$		DE1E3KX222MA4BN01F	9.0	7.0	10.0	0.6	A4	250
Е	3300	$\pm 20\%$	_	DE1E3KX332MA4BN01F	10.0	7.0	10.0	0.6	A4	250
Е	4700	±20%		DE1E3KX472MA4BN01F	12.0	7.0	10.0	0.6	A4	200

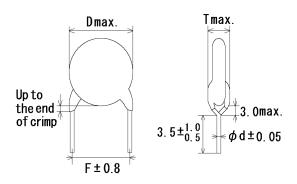
Vertical crimp short type (Lead code:B*)



Note) The mark '*' of lead code differ from lead spacing(F) and lead diameter(d).
Please see the following list about details.

Τ.Ο	Cap. Cap. Customer Part N		Overtone on Deat November	t Number Murata Part Number	Dir	nensi	Lead	Pack		
T.C.	(pF)	tol.	Customer Part Number	Murata Part Number	D	Т	F	d	code	qty. (pcs)
В	100	±10%		DE1B3KX101KB4BN01F	7.0	7.0	10.0	0.6	B4	500
В	150	±10%		DE1B3KX151KB4BN01F	7.0	7.0	10.0	0.6	B4	500
В	220	±10%		DE1B3KX221KB4BN01F	8.0	7.0	10.0	0.6	B4	500
В	330	$\pm 10\%$		DE1B3KX331KB4BN01F	7.0	7.0	10.0	0.6	B4	500
В	470	$\pm 10\%$		DE1B3KX471KB4BN01F	7.0	7.0	10.0	0.6	B4	500
В	680	$\pm 10\%$		DE1B3KX681KB4BN01F	8.0	7.0	10.0	0.6	B4	500
Е	1000	$\pm 20\%$		DE1E3KX102MB4BN01F	7.0	7.0	10.0	0.6	B4	500
Е	1500	$\pm 20\%$		DE1E3KX152MB4BN01F	8.0	7.0	10.0	0.6	B4	500
Е	2200	$\pm 20\%$		DE1E3KX222MB4BN01F	9.0	7.0	10.0	0.6	B4	500
Е	3300	$\pm 20\%$		DE1E3KX332MB4BN01F	10.0	7.0	10.0	0.6	B4	500
Е	4700	$\pm 20\%$		DE1E3KX472MB4BN01F	12.0	7.0	10.0	0.6	B4	250

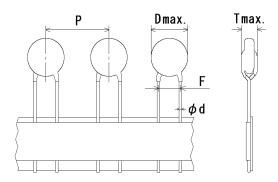
·Vertical crimp short type
 (Lead code:J*)



Note) The mark '*' of lead code differ from lead spacing(F) and lead diameter(d).
Please see the following list about details.

T.C.	Cap. Cap.	Cap.	Customer Dout Number	Murata Part Number	Dir	mensi	Lead	Pack		
1.0.	(pF)			Murata Part Number	D	Т	F	d	code	qty. (pcs)
В	100	$\pm 10\%$		DE1B3KX101KJ4BN01F	7.0	7.0	10.0	0.6	J4	500
В	150	$\pm 10\%$		DE1B3KX151KJ4BN01F	7.0	7.0	10.0	0.6	J4	500
В	220	±10%		DE1B3KX221KJ4BN01F	8.0	7.0	10.0	0.6	J4	500
В	330	±10%		DE1B3KX331KJ4BN01F	7.0	7.0	10.0	0.6	J4	500
В	470	±10%		DE1B3KX471KJ4BN01F	7.0	7.0	10.0	0.6	J4	500
В	680	±10%		DE1B3KX681KJ4BN01F	8.0	7.0	10.0	0.6	J4	500
Е	1000	±20%		DE1E3KX102MJ4BN01F	7.0	7.0	10.0	0.6	J4	500
Е	1500	±20%		DE1E3KX152MJ4BN01F	8.0	7.0	10.0	0.6	J4	500
Е	2200	±20%		DE1E3KX222MJ4BN01F	9.0	7.0	10.0	0.6	J4	500
Е	3300	±20%		DE1E3KX332MJ4BN01F	10.0	7.0	10.0	0.6	J4	500
Е	4700	±20%		DE1E3KX472MJ4BN01F	12.0	7.0	10.0	0.6	J4	250

·Vartical crimp taping type (Lead code:N*)



Note) The mark '*' of lead code differ from lead spacing(F), lead diameter(d) and pitch of component(P). Please see the following list or taping specification about details.

										•	
T.C.	Сар.	Cap.	Customer Part Number	Murata Part Number	Dimension (mm)					Lead	Pack
1.0.	(pF)	tol.	Customer Fart Number	IVIUIAIA FAIT INUIIIDEI	D	Т	F	d	Р	code	qty. (pcs)
В	100	±10%		DE1B3KX101KN4AN01F	7.0	7.0	10.0	0.6	25.4	N4	500
В	150	±10%		DE1B3KX151KN4AN01F	7.0	7.0	10.0	0.6	25.4	N4	500
В	220	$\pm 10\%$		DE1B3KX221KN4AN01F	8.0	7.0	10.0	0.6	25.4	N4	500
В	330	$\pm 10\%$		DE1B3KX331KN4AN01F	7.0	7.0	10.0	0.6	25.4	N4	500
В	470	\pm 10%		DE1B3KX471KN4AN01F	7.0	7.0	10.0	0.6	25.4	N4	500
В	680	\pm 10%		DE1B3KX681KN4AN01F	8.0	7.0	10.0	0.6	25.4	N4	500
Е	1000	$\pm 20\%$		DE1E3KX102MN4AN01F	7.0	7.0	10.0	0.6	25.4	N4	500
Е	1500	$\pm 20\%$		DE1E3KX152MN4AN01F	8.0	7.0	10.0	0.6	25.4	N4	500
Е	2200	$\pm 20\%$		DE1E3KX222MN4AN01F	9.0	7.0	10.0	0.6	25.4	N4	500
Е	3300	$\pm 20\%$	_	DE1E3KX332MN4AN01F	10.0	7.0	10.0	0.6	25.4	N4	500
Е	4700	±20%		DE1E3KX472MN4AN01F	12.0	7.0	10.0	0.6	25.4	N4	500

	test methods								
Ite			cification	_			method		
Appearance and c	dimensions	form and dime	ensions.	for v	isible evide	ence of def	ect.		
Marking					Dimensions should be measured with slide calipers. The capacitor should be inspected by paked eyes.				
Dielectric	Between lead	No failure.	gibic.	The	The capacitor should not be damaged when AC4000V(r.m.s.)<50/60Hz> is applied between the				
ou origin.				lead	wires for 6	0 s.			
		No failure.					capacitor s	should be	
	Ilisulation						be	V	
								X	
							Metal	About 3 to 6	
								Metal	
							000 00	oooooo balls	
				diam	neter.				
						ie capacito	or lead wire	es and metal	
Insulation Resista	nce (I.R.)	10 000MΩ mir	1.						
				throu	ugh a resist	tor of $1M\Omega$		-	
Capacitance		Within specifie	ed tolerance.		The capacitance should be measured at 20°C with				
Dissipation Factor	ssipation Factor (D.F.) 2.5% max.							asured at 20°C	
. , ,				with 1±0.1kHz and AC5V(r.m.s.) max			X		
Temperature characteristic								ıld be made at	
				Caci	т этор эрсс	ilica ili Tab	nc.		
			Sten	1	2	3	4	5	
			Temp.(°C)	20±2	-25±2	20±2	85±2	20±2	
Active liaminability	y	on fire.	otii should not be	leas chee to 20 disci mair S1 C1,2 L1 tc R	t one but mese-cloth. To discharge harges sho ntained for the following state of the follow	tore than to the capacities. The interest of the capacities. The interest of the capacities of the capacities. The interest of the capacities of the capacit	on completor should be evaluated between the last distributed by the last dist	te layers of the subjected sen successive should be scharge. R ct ut Doscilloscope 5% 10kV e choke DkV	
	Marking Dielectric strength Insulation Resista Capacitance Dissipation Factor Temperature chara	Dielectric strength Between lead wires Body insulation Insulation Resistance (I.R.)	Appearance and dimensions Marking Dielectric strength Between lead wires Body insulation Insulation Resistance (I.R.) Capacitance Dissipation Factor (D.F.) To be easily le No failure. No failure. Within specific 2.5% max. Char. B: With Char. E: With (Temp. range) Active flammability The cheese-cl	Appearance and dimensions No marked defect on appearance form and dimensions. Please refer to [Part number list] To be easily legible. No failure.	Appearance and dimensions No marked defect on appearance form and dimensions. Please refer to [Part number list]. The form and dimensions. Please refer to [Part number list]. The lost strength Setween lead wires	Appearance and dimensions No marked defect on appearance for visible evide for mand dimensions. Please refer to [Part number list]. The capacitor so present wires	Appearance and dimensions No marked defect on appearance for wisble evidence of bound be in for which evidence of an and dimensions. Please refer to [Part number list].	Appearance and dimensions No marked defect on appearance for wisble evidence of defect. Dimensions should be inspected to risble evidence of defect. Dimensions should be measured wires	

			Reference only	
No.	Item		Specification	Test method
9	Robustness of terminations	Tensile	Lead wire should not cut off. Capacitor should not be broken.	Fix the body of capacitor, a tensile weight gradually to each lead wire in the radial direction of
		Bending		capacitor up to 10N and keep it for 10±1 s. With the termination in its normal position, the
				capacitor is held by its body in such a manner that the axis of the termination is vertical; a mass
				applying a force of 5N is then suspended from the end of the termination.
				The body of the capacitor is then inclined,
				within a period of 2 to 3 s, through an angle of approximately 90° in the vertical plane and then
				returned to its initial position over the same period of time; this operation constitutes one bend.
				One bend immediately followed by a second bend in the opposite direction.
10	Vibration	Appearance	No marked defect.	The capacitor should be firmly soldered to the
	resistance	Capacitance	Within the specified tolerance.	supporting lead wire and vibration which is 10 to 55Hz in the vibration frequency range,1.5mm in
		D.F.	2.5% max.	total amplitude, and about 1min in the rate of
				vibration change from 10Hz to 55Hz and back to 10Hz is applied for a total of 6 h; 2 h each in
				3 mutually perpendicular directions.
11	Solderability of lead	ds	Lead wire should be soldered With uniformly coated on the	The lead wire of a capacitor should be dipped into a ethanol solution of 25wt% rosin and then into
ļ			axial direction over 3/4 of the	molten solder for 2±0.5 s. In both cases the depth of
			circumferential direction.	dipping is up to about 1.5 to 2.0mm from the root of lead wires.
				Temp. of solder:
				245±5°C Lead Free Solder (Sn-3Ag-0.5Cu) 235±5°C H63 Eutectic Solder
12	Soldering effect	Appearance	No marked defect.	Solder temperature: 350±10°C or 260±5°C
	(Non-preheat)	Capacitance change	Within ±10%	Immersion time : 3.5±0.5 s (In case of 260±5°C : 10±1 s)
		I.R.	1000MΩ min.	The depth of immersion is up to about
		Dielectric strength	Per item 3	1.5 to 2.0mm from the root of lead wires.
				Thermal insulating Capacitor
				1.5 to 2.0mm
				Molten solder
				Pre-treatment: Capacitor should be stored at
				85±2°C for 1 h, then placed at *1room condition for 24±2 h
ļ				before initial measurements.
ļ				Post-treatment: Capacitor should be stored for 1 to 2 h at *1 room condition.
13	Soldering effect (On-preheat)	Appearance	No marked defect.	First the capacitor should be stored at 120+0/-5°C for 60+0/-5 s.
	(On-preneat)	Capacitance change	Within ±10%	Then, as in figure, the lead wires should be
ļ		I.R. Dielectric	1 000MΩ min. Per item 3	immersed solder of 260+0/-5°C up to 1.5 to 2.0mm from the root of terminal for 7.5+0/-1 s.
ļ		strength	rei ileili 3	
				insulating
ļ				1.5 to 2.0mm
				Molten solder
				Pre-treatment : Capacitor should be stored at
ļ				85±2°C for 1 h, then placed at *1room condition for 24±2 h
ļ				before initial measurements.
				Post-treatment: Capacitor should be stored for 1 to 2 h at *1room condition.
*1 "roc	om condition" Tempe	erature: 15 to 35°0	C, Relative humidity: 45 to 75%, Atm	
1				
l				

			Reference only	
No.	Item		Specification	Test method
14	Flame test		The capacitor flame discontinue as follows. Cycle Time 1 to 4 30 s max. 5 60 s max.	The capacitor should be subjected to applied flame for 15 s. and then removed for 15 s until 5 cycle. Capacitor Flame Gas Burner
15	Passive flammability	у	The burning time should not be exceeded the time 30 s. The tissue paper should not ignite.	The capacitor under test should be held in the flame in the position which best promotes burning. Time of exposure to flame is for 30 s. Length of flame: 12±1mm Gas burner: Length 35mm min. Inside Dia. 0.5±0.1mm Outside Dia. 0.9mm max. Gas: Butane gas Purity 95% min. Capacitor About 8mm Flame About 10mm thick board
16	Humidity (Under steed)	Appearance	No marked defect.	Set the capacitor for 500±12 h at 40±2°C in 90 to
	(Under steady state)	Capacitance change	Char. B: Within ±10% Char. E: Within ±15%	95% relative humidity.
	3.3.0)	D.F.	5.0% max.	Post-treatment: Capacitor should be stored for 1 to
		I.R.	3000MΩ min.	2 h at *1room condition.
		Dielectric strength	Per item 3	
17	Humidity loading	Appearance	No marked defect.	Apply the rated voltage for 500±12 h at 40±2°C in
		Capacitance	Char. B: Within ±10%	90 to 95% relative humidity.
		change	Char. E: Within ±15%	Post-treatment : Capacitor should be stored for 1 to
		D.F.	5.0% max.	2 h at *1room condition.
		I.R. Dielectric	3000MΩ min. Per item 3	2 ii at 100iii condition.
		strength	Fer item 3	
.4."	l			

^{*1 &}quot;room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa

Life Appearance Capacitance Capacit	Appearance No marked defect. Impulse voltage Each individual capacitor should be subjected to a 8kV impulses for three times. Then the capacitors are applied to life test.	Life Appearance No marked defect. Impulse voltage Each individual capacitor should be subjected to a 8kV impulses for three times. Then the capacitors are applied to life test.	Life Appearance No marked defect. Impulse voltage Each individual capacitor should be subjected to a 8kV impulses for three times. Then the capacitors are applied to life test.				Reference of	
Capacitance change I.R. 3000MΩ min.	Capacitance change LR. 3000MΩ min.	Capacitance Change Like Change Like Change Like Change Like Change Chan	Capacitance change LR. 3000MΩ min.	No.				
Change SkV impulses for three times. Then the capacitor are papiled to life test. Per item 3	SkV impulses for three times. Then the capacitors are applied to life test. Per item 3 Per item 3	R R 3000MΩ min.	SkV impulses for three times. Then the capacitors are applied to life test. Per item 3 Per	18	Life			
Temperature and immersion cycle Appearance Change Char E : Within ±10% Char E : Within ±10% Char E : Within ±20% D.F. 5.0% max. I.R. 3000MΩ min. Dielectric strength Per item 3 Pe	I.R. 3000MΩ min. Per item 3 The capacitors are placed in a circulating air oven for a period of 1000 h. The air in the oven is maintained at a temperature of 125±2-20 °C, and relative humidity of 50% max. Throughout the test, the capacitors are subjected to a AC425V(r.m.s.)-50600Hz-alternating voltage of mains frequency, except that once each hour the voltage is increased to AC1 000V(r.m.s.) for 0. Post-treatment: Capacitor should be subjected to 5 temperature change Char. E: Within ±10% change Char. E: Within ±20% D.F. 5.0% max. I.R. 3000MΩ min. Dielectric strength Per item 3 1425+3/-0 30 min Cycle time: 5 cycle time: 2 cycle time: 3 cycle time: 2 cycle time: 2 cycle time: 2 cycle time: 3 cycle time: 4 cycle time: 4 cycle time: 4 cycle time: 5	I.R. 3000MΩ min. Per item 3 Time to half-value (T2) = 50 μs Step Temperature (°C) Time Immersion cycles Time to half-value (T2) = 50 μs Time to half-value	Temperature and immersion cycle Per item 3 Per item 3 Temperature and immersion cycle Per item 3 Per item 3 Per item 3 Temperature and immersion cycle Per item 3 Per item 3 Per item 3 Per item 3 Temperature and immersion cycle Per item 3 Per item 4 Per item 4 Per item 4 Per item 5 Per item 6 Per item 6 Per item 7 Per item 7 Per item 8 Per item 8 Per item 8 Per item 9 Per item 9 Per item 9 Per item 1 Per item 3 Per item				vvitnin ±20%	
Dielectric strength Per item 3 Dielectric strength The capacitors are placed in a circulating air over for a period of 1000 h. The air in the oven is maintained at a temperatur of 125+22-0°C, and relative humidity of 50% ms. Throughout the text, the capacitors are subjecte to a AC425V(r.m.s.)+50/60Hz> alternating volta of mains frequency, except that once each hour the voltage is increased to AC1000V(r.m.s.) for Post-treatment: Capacitors should be stored for 2 h at "froom condition. 19 Temperature and immersion cycle Capacitance Char. B: Within ±10% Char. E: Within ±20% D.F. 5.0% max. I.R. 3000MΩ min. Dielectric strength Per item 3 Per item 3 Per item 3 Step Temperature(°C) Time water 1 + 404-0/-3 30 min 3 + 125+3/-0 30 min 3 + 125+3/-0 30 min 4 Room temp. 3 min Cycle time: 5 clammersion cycles Step Temperature(°C) Time water 1 + 65+5/-0 15 min water 2 0±3 15 min Salt water Cycle time: 2 Pre-treatment: Capacitor should be stored at 85±2°C for 1 h, then placed at "room condition for 24±2 h. Post-treatment: Capacitor should be stored of 24 h at "room condition for 24±2 h. Post-treatment: Capacitor should be stored for 24 h at "room condition for 24±2 h.	Dielectric strength Per item 3 Fixetime (T1)=1.7 u.s=1.5T Time to haf-value (T2)=50 u.s 30 1 Time to haf-value (T2)=50 u.s 30 Time to haf-value (T2)=50 u.s	Dielectric strength Per item 3 The capacitors are placed in a circulating air oven for a period of 1000 h. The air in the oven is maintained at a temperature of 125+2/-0 °C, and relative humbridly of 50% max. Throughout the test, the capacitors are subjected to a AC425V(r.m.s.) 19 Temperature and immersion cycle No marked defect. Capacitance Char. B : Witthin ±10% change D.F. 5.0% max. I.R. 3000MΩ min. The capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. Time Dielectric strength Per item 3 Per item 4 P	Dielectric strength Per item 3 The capacitors are placed in a circulating air oven for a period of 1000 h. The air in the oven is maintained at a temperature of 12542/-0 °C, and relative humidity of 50% max. Throughout the test, the capacitors are subjected to a AC425V(r.m.s), \$50/60Hz> alternating voltage of mains frequency, except that once each hour the voltage is increased to AC1 000V(r.m.s.) for 0.1 Post-treatment: Capacitor should be stored for 1 to 2 h at "room condition. The capacitors are placed in a circulating air oven for a period of 1000 h. The air in the oven is maintained at a temperature of 12542/-0 °C, and relative humidity of 50% max. Throughout the test, the capacitors should be subjected to a AC425V(r.m.s.), \$50/60Hz> alternating voltage of mains frequency, except that once each hour the voltage is increased to AC1 000V(r.m.s.), \$for 0.1 Post-treatment: Capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to				3000MO min	are applied to life test.
strength Strength	Strength Strength Time to half-value (T2) = 50 μs	Strength	Strength					
The capacitors are placed in a circulating air over for a period of 1,000 h. The air in the oven is maintained at a temperatur of 125+22/-0°C, and relative humidity of 50% mathroughout the test, the capacitors are subjected to a AC425V(r.m.s.)-50/60Hz> alternating volta of mains frequency, except that none each hour the voltage is increased to AC1 000V(r.m.s.) for Post-treatment: Capacitor should be stored for 2 h at "froom condition. The capacitor should be subjected to 5 temperature and immersion cycle Capacitance Char. B: Within ±10% Change Char. E: Within ±20% D.F. 5.0% max. I.R. 3000MΩ min. Dielectric strength Per item 3 Per item 3 Temperature cycle> Step Temperature(°C) Time Immersion cycle: a comment of the comme	The capacitors are placed in a circulating air oven for a period of 1000 h. The air in the oven is maintained at a temperature of 125+2/-0°C, and relative humidity of 50% max. Throughout the test, the capacitors are subjected to a AC425V(r.m.s.)+50/60/12-alternating voltage of mains frequency, except that once each hour the voltage is increased to AC1 000V(r.m.s.) for 0.¹ Post-treatment: Capacitor should be stored for 1 2 h at "1'room condition. The capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. Appearance Char. E : Within ±10% change Char. E : Within ±20% D.F. 5.0% max. I.R. 3000MΩ min. Dielectric strength Per item 3 Three capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. **Temperature cycles** **Step Temperature("C) Time 1 +40+0°-3 30 min 2 Room temp. 3 min Cycle time : 5 cy **Immersion cycles**	The capacitors are placed in a circulating air oven for a period of 1000 h. The air in the oven is maintained at a temperature of 125+2/-0°C, and relative humidity of 50% max. Throughout the test, the capacitors are subjected to a AC425V(r.m.s.)-50/0601/c. alternating voltage of mains frequency, except that once each hour the voltage is increased to AC1 000V(r.m.s.) for 0.1 Post-treatment: Capacitor should be stored for 1: 2 hat "froom condition. 19 Temperature and immersion cycle Capacitance Char. B: Within ±10% change Char. E: Within ±20% D.F. 5.0% max. I.R. 3000MΩ min. Dielectric strength Per item 3 Per item 3 Step Temperature(°C) Time 1 40+0/-3 30 min 2 Room temp. 3 min Cycle time: 5 cyc < lmmersion cycle> Step Temperature(°C) Time mmersion water 1 +65+5/-0 15 min Salt water 2 0±3 15 min Salt water 2 0±4 hat "froom condition to 24±2 h. Post-treatment: Capacitor should be stored at a 85±2°C for 1 h, then placed at "froom condition to 24±2 h. Post-treatment: Capacitor should be stored for 4 and "froom condition."	The capacitors are placed in a circulating air oven for a period of 1000 h. The air in the oven is maintained at a temperature of 125±2/-0°C, and relative hunidity of 50% max. Throughout the test, the capacitors are subjected to a AC425V(r.m.s.)-c50/60Hz-alternating voltage of mains frequency, except that once each hour the voltage is increased to AC1000V(r.m.s.) for 0.1 Post-treatment: Capacitor should be stored for 1 to 2 h at *froom condition. The capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles. Capacitance Char. B: Within ±10% change Char. B: Within ±20% D.F. 5.0% max. I.R. 3000MΩ min. Dielectric strength Per item 3 Per item 3 Per item 3 The capacitors are placed in a circulating air oven for a period of 1000 h. The air in the oven is maintained at a temperature or lazer to 125±2/-0°C, and relative hunidity of 50% max. Throughout the test, the capacitors are subjected to a AC425V(r.m.s.)-c50/60Hz-alternating voltage of mains frequency. For 0.1 The 2 h at *froom condition. The capacitor should be stored at 85±2°C for 1 h, then placed at *froom condition for 24±2 h. Post-treatment: Capacitor should be stored for 4 to 24 h at *froom condition.					$100 \frac{(\%)}{}$ Front time (T1) = 1.7 μ s=1.67T
The capacitors are placed in a circulating air ow for a period of 1000 h. The air in the oven is maintained at a temperature of 125+27-0° c, and relative humidity of 50% are Throughout the test, the capacitors are subjecte to a AC425V, max. 3-t50/60Hz> alternating volta of mains frequency, except that once each hour the voltage is increased to AC1 000V(r.m.s.) for Post-treatment: Capacitor should be stored for 2 h at "froom condition. The capacitor should be subjected to 5 tempera cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to 5 tempera cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to 5 tempera cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to 5 tempera cycles, then consecutively to 2 immersion cycles. The capacitor should be subjected to 5 tempera cycles, then consecutively to 2 immersion cycles. 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The capacitor should be subjected to 5 tempera cycles, the consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temp	The capacitors are placed in a circulating air oven for a period of 1000 h. The air in the oven is maintained at a temperature of 125+27-0°C, and relative humidity of 50% max. Throughout the test, the capacitors are subjected to a AC425V(r.ms.s), 500/60Hz> alternating voltage of mains frequency, except that once each hour the voltage is increased to AC1000V(r.ms.s) for 0.º Post-treatment: Capacitor should be stored for 1 25 h at "froom condition. The capacitor should be stored for 1 2 h at "froom condition. The capacitor should be stored for 1 2 h at "froom condition. The capacitor should be stored for 1 2 h at "froom condition. The capacitor should be stored for 1 2 h at "froom condition. The capacitor should be stored for 1 2 h at "froom condition. The capacitor should be stored for 1 2 h at "froom condition. The capacitor should be stored for 1 2 h at "froom condition. The capacitor should be stored for 1 2 h at "froom condition. The capacitor should be stored for 1 2 h at "froom condition. The capacitor should be stored for 1 2 h at "froom condition. The capacitor should be stored for 1 2 h at "froom condition. The capacitor should be stored for 1 2 h at "froom condition. The capacitor should be stored for 4 2 h at "froom condition for 24+2 h. Post-treatment: Capacitor should be stored for 4 2 h at "froom condition for 24+2 h.	The capacitors are placed in a circulating air oven for a period of 1000 h. The air in the oven is maintained at a temperature of 125+27-0 °C, and relative humidity of 50% max. Throughout the test, the capacitors are subjected to a AC425V(r.m.s.). 550/60Hz> alternating voltage of mains frequency, except that once each hour the voltage is increased to AC1000V(r.m.s.) for 0.1 Post-treatment: Capacitor should be stored for 1 '2 h at *"room condition. 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The air in the oven is maintained at a temperature of 125+27-0 °C, and relative humidity of 105-60 max. Throughout the test, the capacitor should be stored of 1 '2 h at *"room condition. The air in the oven is maintained at a temperature of 2 has at *"room condition.	The capacitors are placed in a circulating air oven for a period of 1 000 h. The air in the oven is maintained at a temperature of 125+27-0°C, and relative humidity of 50% max. Throughout the test, the capacitors are subjected to a AC4250/(r.m.s.)-60/60Hz> alternating voltage of mains frequency, except that once each hour the voltage is increased to AC1000V(r.m.s.) for 0.1 Post-treatment: Capacitor should be stored for 1 to 2 h at "froom condition. The capacitors are placed in a circulating air oven for a period of 1 000 h. The air in the oven is maintained at a temperature of 125+27-0°C, and relative humidity of 50% max. 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The capacitors are placed in a circulating air over for a period of 1000 h. The air in the oven is maintained at a temperature of 125+27-0° c, and relative humidity of 50% ms. Throughout the test, the capacitors are subjecte to a AC425V50/60Nt2-a laternating voltage of mains frequency, except that once each hour the voltage is increased to AC1 000V(r.m.s.) for Post-treatment: Capacitor should be stored for 2 h at "room condition. The capacitor should be subjected to 5 temperators of the consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temperators of the consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temperators of the consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temperators of the consecutively to 2 immersion cycles. The capacitor should be subjected to 5 temperators of the consecutively to 2 immersion cycles. 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· · · · · · · · · · · · · · · · · · ·				1 "roc	om condition" Temper	ature: 15 to 35°	C. Relative humidity: 45 to 759	24 h at *1room condition.
				roc	om condition" Temper	ature: 15 to 35°0	ى, Relative numidity: 45 to 75٪	%, Atmospheric pressure: 86 to 106k⊬a

6.Packing specification

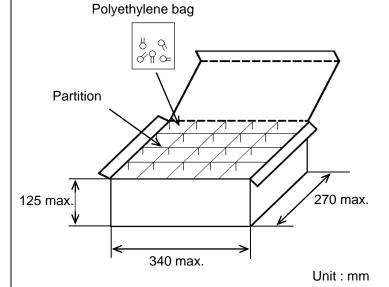
•Bulk type (Packing style code : B)

*1 *2
The number of packing = Packing quantity \times n

The size of packing case and packing way

*1 : Please refer to [Part number list].

*2 : Standard n = 20 (bag)

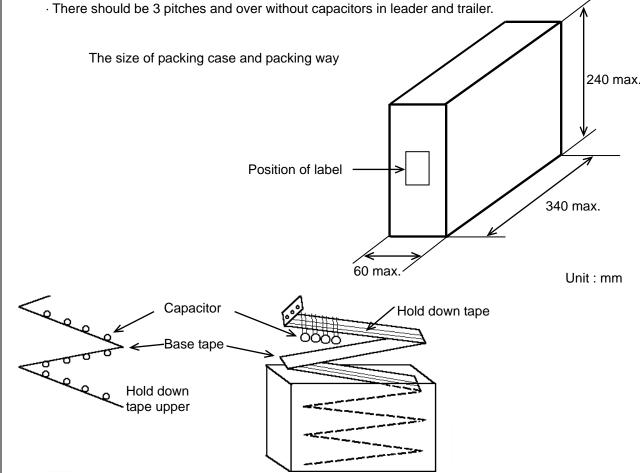


Note)

The outer package and the number of outer packing be changed by the order getting amount.

•Ammo pack taping type (Packing style code : A)

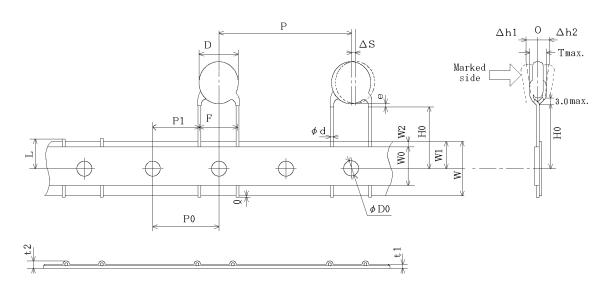
- · The tape with capacitors is packed zigzag into a case.
- \cdot When body of the capacitor is piled on other body under it.



7. Taping specification

7-1. Dimension of capacitors on tape

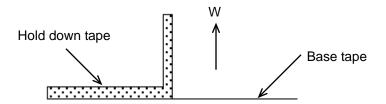
Vertical crimp taping type < Lead code : N4 >
Pitch of component 25.4mm / Lead spacing 10.0mm



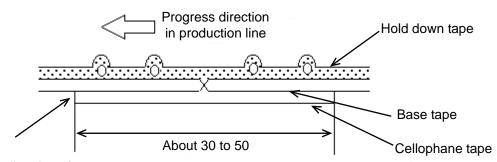
Item	Code	Dimensions	Remarks
Pitch of component	Р	25.4±2.0	nomane
Pitch of sprocket hole	P0	12.7±0.3	
Lead spacing	F	10.0±1.0	
Length from hole center to lead	P1	7.7±1.5	
Body diameter	D	Please refer to [P	art number list].
Deviation along tape, left or right	ΔS	0±2.0	They include deviation by lead bend .
Carrier tape width	W	18.0±0.5	
Position of sprocket hole	W1	9.0±0.5	Deviation of tape width direction
Lead distance between reference and	H0	18.0± ₀ ^{2.0}	
bottom planes		10.0±0	
Protrusion length	Q	+0.5~-1.0	
Diameter of sprocket hole	φD0	4.0±0.1	
Lead diameter	φd	0.60±0.05	
Total tape thickness	t1	0.6±0.3	The coincide he led decomplete a shiple and
Total thickness, tape and lead wire	t2	1.5 max.	They include hold down tape thickness.
Deviation across tape, front	∆h1	2.0	
Deviation across tape, rear	∆h2	2.0 max.	
Portion to cut in case of defect	L	11.0± _{1.0}	
Hold down tape width	W0	11.5 min.	
Hold down tape position	W2	1.5±1.5	
Coating extension on lead	е	Up to the end of crimp	
Body thickness	Т	Please refer to [P	art number list].

7-2. Splicing way of tape

1) Adhesive force of tape is over 3N at test condition as below.



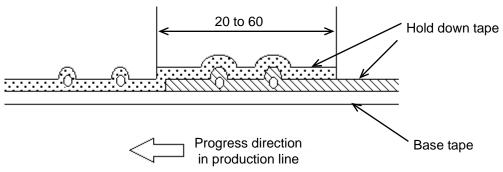
- 2) Splicing of tape
 - a) When base tape is spliced
 - •Base tape should be spliced by cellophane tape. (Total tape thickness should be less than 1.05mm.)



No lifting for the direction of progressing

Unit: mm

- b) When hold down tape is spliced
 - •Hold down tape should be spliced with overlapping. (Total tape thickness should be less than 1.05mm.)



- c) When both tape are spliced
 - •Base tape and hold down tape should be spliced with splicing tape.
- 3) Missing components
 - •There should be no consecutive missing of more than three components.
 - •The number of missing components should be not more than 0.5% of total components that should be present in a Ammo pack.