

Reference Specification

Type KJ
Safety Standard Certified Lead Type Disc Ceramic Capacitors for Automotive

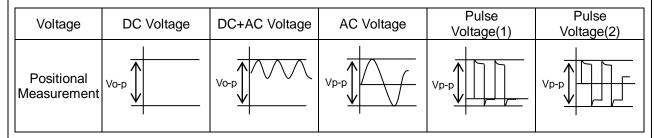
Product specifications in this catalog are as of Jun. 2019, and are subject to change or obsolescence without notice.

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.

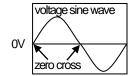
(2) VOLTAGE APPLIED METHOD

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. Excessive shock or vibration may cause to fatigue destruction of lead wires mounted on the circuit board. Please take measures to hold a capacitor on the circuit boards by adhesive, molding resin or coating and other. Please confirm there is no influence of holding measures on the product with a intended equipment.

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 $^{\circ}$ 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.

$oldsymbol{\Lambda}$ note

- 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.

1. Application

This specification is applied to Safety Standard Certified Lead Type Disc Ceramic Capacitors Type KJ which can be used for the battery charger for Electric Vehicles and Plug-in Hybrid.

Type KJ is Safety Standard Certified capacitors of Class X1,Y2, and in accordance with AEC-Q200 requirements.

Approval standard and certified number

	Standard number	*Certified number	AC Rated voltage V(r.m.s.)
UL/cUL	UL60384-14	E37921	300
ENEC (VDE)	EN60384-14 IEC60384-14	40031217	300

^{*}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

Product code

DE6 denotes class X1,Y2.

•Temperature characteristic

Code	Temperature characteristic
E3	E

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

• Type name

This denotes safety certified type name Type KJ.

Rated voltage: AC300V(r.m.s.)

• 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 crimp short type
N*	Vertical crimp taping type

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

Solder coated copper wire is applied for termination.

• Packing style code

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.

Note) Murata part numbers might be changed depending on lead code or any other changes. Therefore, please specify only the type name(KJ) 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 : KJ
Rated voltage mark : 300~
Class code : X1Y2

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

Manufacturing month : Code

ex.) YEAR MONTH
2015 12(December)

* From January to September: "1" to "9",

October : "O" , November : "N" , December : "D"

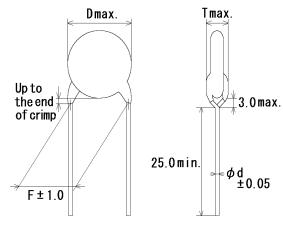
Company name code : (Made in Thailand)

(Example)

472M KJ 300∼ X1Y2 5D € 15

4. Part number list

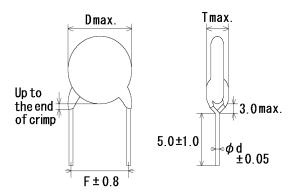
Vertical crimp long type (Lead code: A*)



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

									Unit .	111111
T.C.	Сар.	Сар.	Customer Part Number	Murata Part Number	Din	nensi	on (m	m)	Lead	Pack
1.0.	(pF)	tol.	Customer Fait Number	Murata i art Number	D	Т	F	d	code	qty. (pcs)
Е	1000	±20%		DE6E3KJ102MA3B	7.0	7.0	7.5	0.6	А3	250
Е	1500	±20%		DE6E3KJ152MA3B	8.0	7.0	7.5	0.6	А3	250
Е	2200	±20%		DE6E3KJ222MA3B	9.0	7.0	7.5	0.6	А3	250
Е	3300	±20%		DE6E3KJ332MA3B	10.0	7.0	7.5	0.6	А3	250
Е	4700	±20%		DE6E3KJ472MA3B	12.0	7.0	7.5	0.6	А3	200

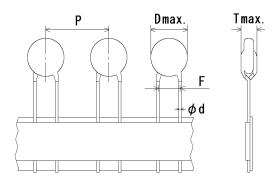
Vertical crimp short type (Lead code:B*)



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

									O :	
T.C.	Сар.	Сар.	Customer Part Number	Murata Part Number	Din	nensi	on (m	m)	Lead	Pack
1.0.	(pF)	tol.	Customer Fart Number	Wurata Fart Number	D	Т	F	d	code	qty. (pcs)
Е	1000	±20%		DE6E3KJ102MB3B	7.0	7.0	7.5	0.6	В3	500
Е	1500	±20%		DE6E3KJ152MB3B	8.0	7.0	7.5	0.6	В3	500
Е	2200	±20%		DE6E3KJ222MB3B	9.0	7.0	7.5	0.6	В3	500
Е	3300	±20%		DE6E3KJ332MB3B	10.0	7.0	7.5	0.6	В3	500
Е	4700	±20%		DE6E3KJ472MB3B	12.0	7.0	7.5	0.6	В3	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.

										Offic.	111111
T.C.	Сар.	Сар.	Customer Part Number	Murata Part Number		imer	nsion	(mm)	Lead	Pack
1.0.	(pF)	tol.	Customer Fait Number	Murata Fait Number	D	Т	F	d	Р	code	qty. (pcs)
Е	1000	$\pm 20\%$		DE6E3KJ102MN3A	7.0	7.0	7.5	0.6	15.0	N3	700
Е	1500	±20%		DE6E3KJ152MN3A	8.0	7.0	7.5	0.6	15.0	N3	700
Е	2200	±20%		DE6E3KJ222MN3A	9.0	7.0	7.5	0.6	15.0	N3	700
Е	3300	$\pm 20\%$		DE6E3KJ332MN3A	10.0	7.0	7.5	0.6	15.0	N3	700
Е	4700	$\pm 20\%$		DE6E3KJ472MN3A	12.0	7.0	7.5	0.6	15.0	N3	700

5. Spe	cification and test r	nethods								
No.	lt/	em		ecification				est method		
1	Appearance and	dimensions		ect on appearand [Part number lis		The capacit for visible ev Dimensions	vidence of	defect.	•	•
						calipers.				
2	Marking		To be easily le			The capacit				
3	Capacitance		Within specifie	ed tolerance.		The capacit 1±0.1kHz a				0°C with
4	Dissipation Facto	or (D.F.)	2.5% max.			The dissipa with 1±0.1k	tion factor	should be	measured	d at 20°C
5	Insulation Resista	ance (I.R.)	10000MΩ min			The insulativith DC500 The voltage	on resista ±50V with should be	nce should nin 60±5 s o applied to	be measo	g.
6	Dielectric strength	Between lead wires	No failure.			The capacit AC2600V(r. the lead wire	m.s.)<50/ es for 60 s	60Hz> is a s.	pplied bet	ween
-		Body insulation	No failure.			First, the ter connected to Then, a met be closely we the body of to the distant about 3 to 4 from each to Then, the ca container fill diameter. Fit applied for 6 and metal b	ogether. tal foil sho rapped ar the capac nce of mm erminal. apacitor sl led with m nally, AC2 60 s betwe alls.	round itor Me foil of the following the foll	serted into f about 1r s.)<50/60 pacitor lead	About 3 to 4 mm 6 Metal balls 0 a nm Hz> is d wires
7	Temperature char	racteristic	Within +20/-55 (Temp. range :	5% 25 to +85°C)		The capacit each step s			should be	made at
				Step	1	2	3	4	5	1
				Temp.(°C)	20±2		20±2	85±2	20±2	
			Pre-treatment Capacitor show before initial management	uld be stored at 1					I	J 24±2 h
8	Solderability				al		eam agin ipped into comolten soft immersiot of lead volder: e Solder(\$\frac{\partial}{2}\$	g, the lead a ethanol s solder for 5 ion is up to	I wire of a solution of the solution of the solution of the solution about 1.5 Cu) 245±	a capacitor 25% rosin ec. 5 to 2.0mm

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

			Reference only	
No.	Item		Specification No marked defeat	Test method
9	Resistance to Soldering Heat	Appearance Capacitance	No marked defect. Within ± 10%	As shown in figure, the lead wires should be immersed in solder of 260±5°C up to 1.5 to 2.0mm
	(Non-preheat)	change	VVIIIII1 ± 10%	from the root of terminal for 10±1 s.
	, ,	I.R.	1000M Ω min.	Thermal
		Dielectric	Per Item 6	insulating ()
		Strength	Per item 6	1.5 to 2.0mm
				↑ Molten
				solder
				Pre-treatment
				Capacitor should be stored at 125±3°C for 1 h,
				then placed at *room condition for 24±2 h before initial measurements.
				Post-treatment
				Capacitor should be stored for 1 to 2 h at *room
10	Resistance to	Appearance	No marked defect.	condition. First the capacitor should be stored at 120+0/-5°C
10	Soldering Heat	Capacitance	Within ±10%	for 60+0/-5 s.
	(On-preheat)	change		Then, as in figure, the lead wires should be
		I.R.	1000MΩ min.	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.
		Dielectric strength	Per item 6	- 0
		Sasigai		Thermal insulating Capacitor
				1.5
				to 2.0mm
				solder
				Pre-treatment: Capacitor should be stored at
				125±3°C for 1 h, then placed at
				*1room condition for 24±2 h
				before initial measurements. Post-treatment: Capacitor should be stored for 1 to
				Post-treatment: Capacitor should be stored for 1 to 2 h at *1 room condition.
11	Vibration	Appearance	No marked defect.	Solder the capacitor and gum up the body to the
		Capacitance D.F.	Within the specified tolerance. 2.5% max.	test jig (glass epoxy board) by resin(adhesive).
		D.1.	2.070 max.	resin(adhesive)
				The capacitor should be firmly soldered to the
				supporting lead wire, 1.5mm in total amplitude, with about 20 minutes rate of vibration change from 10Hz
				to 2000Hz and back to 10Hz.
				This motion should be applied for 12 times in each 3
				mutually perpendicular directions (total of 36 times). The acceleration is 5g max
12	Mechanical	Appearance	No marked defect.	Solder the capacitor and gum up the body to the
	Shock	Capacitance	Within the specified tolerance.	test jig (glass epoxy board) by resin(adhesive).
	(Compliant with AEC-Q200)	D.F.	5.0% max.	resin(adhesive)
	2200)			
		I.R.	10000MΩ min.	
				Three shocks in each direction should be applied
				along 3 mutually perpendicular axes to and from of
				the test specimen (18 shocks).
				The specified test pulse should be Half-sine and should have a duration :0.5ms, peak value:100g
				and velocity change: 4.7m/s.
13	Humidity	Appearance	No marked defect.	Set the capacitor for 1000±12 h at 85±3°C in 80 to
	(Under steady state)	Capacitance change	Within ±15%	85% relative humidity.
	/	D.F.	5.0% max.	Pre-treatment
				Capacitor should be stored at 125±3°C for 1 h,
		I.R. Dielectric	3000MΩ min. Per item 6	then placed at *room condition for 24±2 h before initial measurements.
		strength	i di itemi o	Post-treatment
				Capacitor should be stored for 1 to 2 h at *room
* "roo	n condition" Tomporet	ure: 15 to 25°C	Lelative humidity: 45 to 75%, Atmosph	condition.
roor	n condition" Temperat	ure: 15 to 35°C,	relative numidity: 45 to 75%, Atmosph	neric pressure: 86 to 106kPa

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Capacitance change D.F. 5.0% max. Pre-treatment Capacitor should be stored at 125±3°C for then placed at "room condition for 24±2 h binitial measurements. Post-treatment Capacitor should be stored for 1 to 2 h at "nondition.	No marked defect. Apply the rated voltage for 1000±12 h at 85±3°C in 80 to 85% relative humidity.				
Capacitance change D.F. 5.0% max. Pre-treatment Capacitor should be stored at 125±3°C for then placed at "room condition for 24±2 h b initial measurements. Post-treatment Capacitor should be stored for 1 to 2 h at "n condition.	80 to 85% relative humidity. 5.0% max. •Pre-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at *room condition for 24±2 h before initial measurements. •Post-treatment Capacitor should be stored for 1 to 2 h at *room condition. No marked defect. Within ± 20% 3000MΩ min. Per item 6 The capacitors are applied to life test. **Time to half-value (T2) = 50 μ s **Time to half-value (T2) = 50 % s **Throughout the test, the capacitors are subjected to a AC510V(r.m.s.) <50/60Hz> alternating voltage of mains frequency, except that once each hour the voltage is increased to AC1000V(r.m.s.) for 0.1 s. •Pre-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at *room condition for 24±2 h before initial measurements. •Post-treatment Capacitor should be stored for 1 to 2 h at *room condition.			14 Humidity loading L∆nnearance No marked detect L∆noly the reted voltage for 1000±42 b et 95±20€ is	
D.F. 5.0% max. I.R. 3000MΩ min. 15 Life Dielectric strength Capacitor should be stored at 125±3°C for then placed at "room condition for 24±2 h binitial measurements. Post-treatment Capacitor should be stored for 1 to 2 h at "room condition. Impulse voltage Each individual capacitor should be subject a 5kV impulses for three times. Then the capacitors are applied to life test. Dielectric strength Per item 6 Per item 6 The capacitors are placed in a circulating air for a period of 1000 h. The air in the oven is maintained at a tempe of 125±2/-0°C, and relative humidity of 50% Throughout the test, the capacitors are subject a AC510V(r.m.s.) ≤50/60Hz-s alternating of mains frequency, except that once each the voltage is increased to AC1000V(r.m.s.) 0.1 s. Post-treatment Capacitor should be stored at 125±3°C for then placed at "room condition for 24±2 h b initial measurements. Post-treatment Capacitor should be stored for 1 to 2 h at "roomdition. The capacitor should be stored for 1 to 2 h at "roomdition.	Pre-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at *room condition for 24±2 h before initial measurements. Post-treatment Capacitor should be stored for 1 to 2 h at *room condition. No marked defect. Impulse voltage Each individual capacitor should be subjected to a 5kV impulses for three times. Then the capacitors are applied to life test. 3000MΩ min. Per item 6 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 AC510V(r.m.s.) Throughout the test, the capacitors are subjected to a AC510V(r.m.s.) The original provided 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 AC510V(r.m.s.) Throughout the test, the capacitors are subjected to a AC510V(r.m.s.) for 0.1 s. Pre-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at *room condition for 24±2 h before initial measurements. Post-treatment Capacitor should be stored for 1 to 2 h at *room condition.		14 Humidity loading I Appearance I No marked defect. I Apply the rated voltage for 1000+12 h at 85+3°C in		
D.F. 5.0% max. Pre-treatment Capacitor should be stored at 125±3°C for then placed at "room condition for 24±2 h by initial measurements.	Capacitor should be stored at 125±3°C for 1 h, then placed at *room condition for 24±2 h before initial measurements. Post-treatment Capacitor should be stored for 1 to 2 h at *room condition. No marked defect. Within ± 20% Biggie Each individual capacitor should be subjected to a 5kV impulses for three times. Then the capacitors are applied to life test. 3000MΩ min. Per item 6 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 AC510V(r.m.s.) The capacitor should be stored at 125±3°C for 1 h, then placed at *room condition.	Consistence Within 1450/		L Conneitones Within 1450/ 100 to 050/ relative humidity	
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	Cycle Time 1 to 4 30 s max. 5 60 s max. Lead wire should not cut off. Capacitor Flame Gas Burner (in mm) As shown in the figure at right, fix	Pre-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at "room condition for 24±2 h before initial measurements." Post-treatment Capacitor should be stored for 1 to 2 h at "room condition."	Capacitance Anange D.F. 5.0% max I.R. 3000MΩ min. I.R. Dielectric Strength Capacitor should be stored at 125±3°C for 1 h, then placed at "room condition for 24±2 h before initial measurements. Post-treatment Capacitor should be stored for 1 to 2 h at "room condition. I.R. 3000MΩ min. I.R. 3000MΩ min. I.R. 3000MΩ min. I.R. 3000MΩ min. Dielectric Strength 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 AC\$100(r,m.s.) for 0.1 s. Pre-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at "room condition for 24±2 h before initial measurements. -Pre-treatment Capacitor should be stored for 1 to 2 h at "room condition. The capacitor should be subjected to applied flame for 15 s. and then removed for 15 s on the nemowed for 15 s. on the	Change D.F. 5.0% max Pre-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at "room condition for 24±2 h before initial measurements. Post-treatment Capacitor should be stored for 1 to 2 h at "room condition.	
	Cycle Time 1 to 4 30 s max. 5 60 s max. Lead wire should not cut off. Capacitor should not be broken. As shown in the figure at right, fix the body of the capacitor and apply a tensile weight gradually to each	Change D.F. 5.0% max Pre-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at "room condition for 24±2 h before initial measurements. Prost-treatment Capacitor should be stored for 1 to 2 h at "room condition for 24±2 h before initial measurements. Prost-treatment Capacitor should be stored for 1 to 2 h at "room condition. Impulse vottage Each individual capacitor should be subjected to a 5kV impulses for three times. Then the capacitors are applied to life test. Per item 6	Capacitance Within ±15% So to 85% relative humidity.	Pre-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at "room condition for 24±2 h before initial measurements. Post-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at "room condition for 24±2 h before initial measurements. Post-treatment Capacitor should be stored for 1 to 2 h at "room condition. Impulse voltage Each individual capacitor should be subjected to a 5kV impulses for three times. Then the capacitors are applied to life tests. I.R. 3000MΩ min.	
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lead wire in the radial direction of the capacitor up to 10N, and keep it	Cycle Time 1 to 4 30 s max. 5 60 s max. Lead wire should not cut off. Capacitor should not be broken. As shown in the figure at right, fix the body of the capacitor and apply a tensile weight gradually to each lead wire in the radial direction of the capacitor up to 10N, and keep it	Change D.F. 5.0% max Pre-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at "room condition for 24±2 h before initial measurements. Prost-treatment Capacitor should be stored for 1 to 2 h at "room condition for 24±2 h before initial measurements. Prost-treatment Capacitor should be stored for 1 to 2 h at "room condition. Impulse vottage Each individual capacitor should be subjected to a 5kV impulses for three times. Then the capacitors are applied to life test. Per item 6	Capacitance Within ±15% So to 85% relative humidity.	Per-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at "room condition for 24±2 h before initial measurements.	
lead wire in the radial direction of the capacitor up to 10N, and keep it for 10±1 s.	Cycle Time 1 to 4 30 s max. 5 60 s max. Lead wire should not cut off. Capacitor should not be broken. As shown in the figure at right, fix the body of the capacitor and apply a tensile weight gradually to each lead wire in the radial direction of the capacitor up to 10N, and keep it for 10±1 s.	Pre-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at "room condition for 24±2 h before initial measurements.	Capacitance Change D.F. 5.0% max. Solve the standard of the sta	Pre-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at "room condition for 24±2 h before initial measurements. Pre-treatment Capacitor should be stored at 125±3°C for 1 h, then placed at "room condition for 24±2 h before initial measurements. Pre-treatment Capacitor should be stored for 1 to 2 h at "room condition. Impulse soft three times. Then the capacitors are applied to life test. Per item 6 Per it	
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lead wire in the radial direction of the capacitor up to 10N, and keep it for 10±1 s. Bending	Cycle Time 1 to 4 30 s max. 5 60 s max. As shown in the figure at right, fix the body of the capacitor and apply a tensile weight gradually to each lead wire in the radial direction of the capacitor up to 10N, and keep it for 10±1 s. Each lead wire should be subjected to 5N of weight and bent 90° at the point of egress, in one direction,	Change D.F. 5.0% max. Pre-treatment Capacitor should be stored at 125:3°C for 1 h, then placed at "room condition for 24±2 h before initial measurements. Post-treatment Capacitor should be stored for 1 to 2 h at "room condition condition. Post-treatment Capacitor should be stored for 1 to 2 h at "room condition. Capacitor should be stored for 1 to 2 h at "room condition. Impulse voltage Each individual capacitor should be subjected to a KS (Impulses for three times. Then the capacitors are applied to life fest. Per ttem 6 Per tte	Capacitance Change D.F. 5.0% max. D.F. 2000MΩ min. D.F. 2000MΩ min. D.F. Capacitor should be stored at 125±3°C for 1 h, then placed at "room condition for 24±2 h before initial measurements. Post-treatment Capacitor should be stored for 1 to 2 h at "room condition. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.F. D.	Capacitor should be stored at 125:3°C for 1 h, then placed at "room condition for 24:2 h before initial measurements. Post-treatment Capacitor should be stored for 1 to 2 h at "room condition. I.R. 3000MΩ min. Post-treatment Capacitor should be stored for 1 to 2 h at "room condition. Capacitor should be stored for 1 to 2 h at "room condition. Impulse voltage Each individual capacitor should be subjected to a SkV impulses for three times. Then the capacitor strength Per item 6 Impulse voltage Each individual capacitor should be subjected to a SkV impulses for three times. Then the capacitor strength Per item 6 Impulse voltage Each individual capacitor should be subjected to a SkV impulses for three times. Then the capacitors are applied to life fest. The shark-wate. (72) = 50 /s strength The shark-wate. (72) = 50 /s strength The parint in the own is maintained at a temperature of 125+22-0°C, and relative humidity of 50% max. Throughout the test, the capacitors are subjected to a AC510V(r.m.s.)-50/60/12-3 alternating voltage of mains frequency, except that once each hour the voltage is increased to AC1000V(r.m.s.) for 0.1 s. Pre-treatment Capacitor should be stored for 1 to 2 h at "room condition. Pre-treatment Capacitor should be stored for 1 to 2 h at "room condition. Pre-treatment Capacitor should be stored for 1 to 2 h at "room condition. Pre-treatment Capacitor should be subjected to a prior the voltage is increased to AC1000V(r.m.s.) for 0.1 s. Pre-treatment Capacitor should be subjected to a prior the voltage is increased to AC1000V(r.m.s.) for 0.1 s. Pre-treatment Capacitor should be subjected to a prior the voltage is increased to AC1000V(r.m.s.) for 0.1 s. Pre-treatment Capacitor should be subjected to a prior the voltage is increased to AC1000V(r.m.s.) for 0.1 s. Pre-treatment Capacitor should be subjected to a prior the voltage is increased to AC1000V(r.m.s.) for 0.1 s. Pre-treatment Capacitor should be subjected to a prior the volt	
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D.F. 5.0% max. Pre-treatment Capacitor should be stored at 125±3°C for then placed at "room condition for 24±2 h binitial measurements. Post-treatment Capacitor should be stored for 1 to 2 h at "noom condition.	Capacitor should be stored at $125\pm 3^{\circ} C$ for 1 h, then placed at *room condition for 24 ± 2 h before initial measurements. *Post-treatment Capacitor should be stored for 1 to 2 h at *room condition. No marked defect. Within $\pm 20\%$ a 5kV impulses for three times. Then the capacitors are applied to life test. 3000M Ω min. Per item 6 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 $125\pm 2/-0^{\circ} C$, and relative humidity of 50% max Throughout the test, the capacitors are subjected to a $AC510V(r.m.s.) + 50/60Hz$ alternating voltage of mains frequency, except that once each hour the voltage is increased to $AC1000V(r.m.s.)$ for 0.1 s . *Pre-treatment Capacitor should be stored at $125\pm 3^{\circ} C$ for 1 h, then placed at *room condition for 24 ± 2 h before initial measurements. *Post-treatment Capacitor should be stored for 1 to 2 h at *room condition for 20 h at *room cond		Capacitance Within ±15% 80 to 85% relative humidity.		

1		Reference only	
	1	Specification	Test method
Active flammability		The cheese-cloth should not be on fire.	The capacitors should be individually wrapped in at least one, but not more than two, complete layer cheese-cloth. The capacitor should be subjected 20 discharges. The interval between successive discharges should be 5 s. The UAc should be maintained for 2min after the last discharge. $\frac{s_1}{r_r} = \frac{L_1}{s_2} = \frac{L_2}{u_{AC}} = \frac{R}{c_1} = \frac{R}{c_2} = \frac{R}{c_1} = \frac{R}{c_2} = \frac{R}{c_2} = \frac{R}{c_1} = \frac{R}{c_2} = \frac{R}{c_1} = \frac{R}{c_1} = \frac{R}{c_2} = \frac{R}{c_2} = \frac{R}{c_1} = \frac{R}{c_2} = \frac{R}{c_2} = \frac{R}{c_2} = \frac{R}{c_1} = \frac{R}{c_2} = \frac{R}{c_1} = \frac{R}{c_2} = \frac{R}{c_1} = \frac{R}{c_1} = \frac{R}{c_2} = \frac{R}{c_1} = \frac{R}{c_$
			5kV time
Passive flammability		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 flat 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.
Temperature	Annearance	No marked defect	The capacitor should be subjected to
			1000 temperature cycles.
(Compliant with			Step Temperature(°C) Time(min.
AEC-Q200)	D.F.	5.0% max.	1 -55+0/-3 30
	I.R.	3000M $Ω$ min.	2 Room temp. 3
	Dielectric	Per Item 6.	3 +125+3/-0 30
	strength		4 Room temp. 3 •Pre-treatment Capacitor should be stored at 125±3°C for 1 h, the placed at *room condition for 24±2 h. •Post-treatment Capacitor should be stored for 24±2 h at *room condition.
High Temperature Exposure	Capacitance change	Within ± 20%	Sit the capacitor for 1,000±12 h at 150±3°C.
(Storage) (Compliant with AEC-Q200)	I.R.	5.0% max. 1000MΩ min.	 Pre-treatment Capacitor should be stored at 125±3°C for 1 h, the placed at *room condition for 24±2 h. Post-treatment Capacitor should be stored for 24±2 h at *room condition.
	Passive flammability Passive flammability Temperature Cycle (Compliant with AEC-Q200) High Temperature Exposure (Storage) (Compliant with	Passive flammability Temperature Cycle (Compliant with AEC-Q200) High Temperature Exposure (Storage) (Compliant with AEC-Q200) Capacitance change D.F. I.R. Dielectric strength Capacitance change D.F. I.R. Dielectric strength	Active flammability Passive flammability The burning time should not be on fire. The burning time should not be exceeded the time 30 s. The tissue paper should not ignite. Temperature Cycle (Cycle (Compliant with AEC-Q200) AEC-Q200) AEC-Q200 Pig. 5.0% max. I.R. 3000MΩ min. Dielectric strength Per Item 6. High Temperature Exposure (Storage) (Storage) (Storage) D.F. 5.0% max. I.R. 3000MΩ min. Dielectric strength Fer Item 6.

			Reference	
No.	lter		Specification	Test method
22	Thermal Shock	Appearance	No marked defect except	The capacitor should be subjected to 300 cycles.
	(Compliant with		color change of outer coating.	O T T T T T T T T T T T T T T T T T T T
	AEC-Q200)	Capacitance	Within ±20%	Step Temperature(°C) Time(min.)
		change		1 -55+0/-3 30
		D.F.	5.0% max.	
		I.R.	3000M Ω min.	2 125+3/0 30
				Pre-treatment
				Capacitor should be stored at 125±3°C for 1 h, then placed at
				*room condition for 24±2 h.
				Post-treatment
				Capacitor should be stored for 24±2 h at *room condition.
23	Resistance to	Appearance	No marked defect.	Per MIL-STD-202 Method 215
	Solvents	Capacitance	Within ±20%	Solvent 1 : 1 part (by volume) of isopropyl alcohol
	(Compliant with	change		3 parts (by volume) of mineral spirits
	AEC-Q200)	D.F.	5.0% max.	Solvent 2 : Terpene defluxer
		I.R.	2000140 min	Solvent 3: 42 parts (by volume) of water
		I.K.	3000M $Ω$ min.	1part (by volume) of propylene glycol
				monomethyl ether
				1 part (by volume) of monoethanolomine
24	Biased Humidity	Appearance	No marked defect.	Apply DC1.3+0.2/-0 V (add 100k Ω resistor) at 85±3°C and 80
4	(Compliant with	Capacitance	Within ±15%	
	AEC-Q200)	change	VVIIIIII ± 1376	to 85% humidity for 1,000±12 h.
	750-0200)		F 09/ may	The charge/discharge current is less than 50mA
		D.F.	5.0% max.	•Pro trootmont
		I.R.	3000M $Ω$ min.	•Pre-treatment
				Capacitor should be stored at 125±3°C for 1 h, then placed at *room condition for 24±2 h.
				Post-treatment
				Capacitor should be stored for 24±2 h at *room condition.
		<u> </u>		
25	Moisture	Appearance	No marked defect.	Apply the 24 h heat(25 to 65°C) and humidity(80 to
	Resistance	Capacitance	Within ±20%	98%) treatment shown below, 10 consecutive times.
	(Compliant with	change		
	AEC-Q200)	D.F.	5.0% max.	Temperature Humidity Humidity 100 Humidity 80~98% Humidity 80~98% Humidity
		I.R.	3000MΩ min.	90~98% V 90~98% V 90~98%
				¹⁰
				65 60
				55 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -
				Φ 50
				© 50 g 45 e 40 e 35 g 35 g 30
				⁻ 30 -
				25 }
				20 +10 +10 -2 °C
				'° 7
				10 5 Initial measurement
				-5
				-10
				One cycle 24 hours
				0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 2021 22 23 2
				Hours
				Post-treatment
				Capacitor should be stored for 24±2 h at *room condition.
* "	n condition!! Taxas	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Polotivo humiditus 45 to 750/	tmoonhorio progguro: 96 to 400kDo
1001	n condition Temper	ature. 15 to 35°C	, relative numbility. 45 to 75%, F	atmospheric pressure: 86 to 106kPa

6.Packing specification

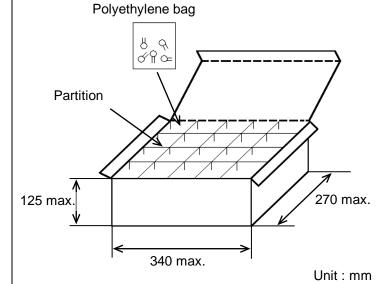
•Bulk type (Packing style code : B)

The size of packing case and packing way

 $\begin{array}{c} *1 \\ \text{The number of packing = Packing quantity} \times \ n \end{array}$

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

*2 : Standard n = 20 (bag)

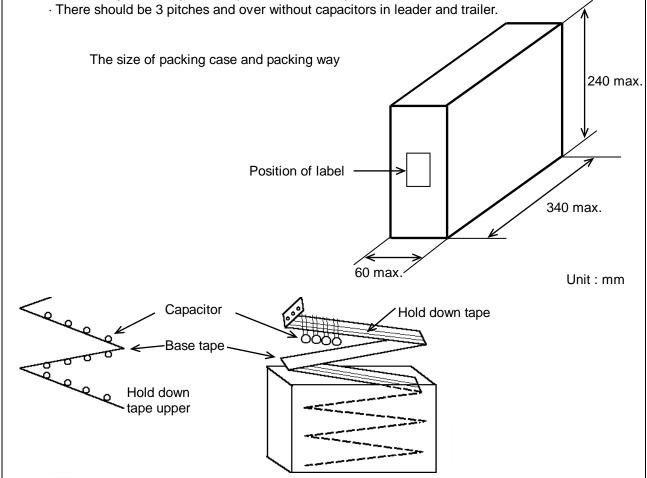


Note)

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

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

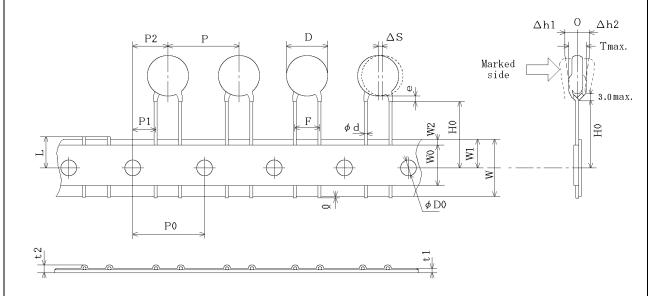
- · The tape with capacitors is packed zigzag into a case.
- · When body of the capacitor is piled on other body under it.



7. Taping specification

7-1. Dimension of capacitors on tape

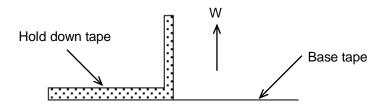
Vertical crimp taping type < Lead code : N3 > Pitch of component 15.0mm / Lead spacing 7.5mm



Item	Code	Dimensions	Remarks
Pitch of component	Р	15.0±2.0	
Pitch of sprocket hole	P0	15.0±0.3	
Lead spacing	F	7.5±1.0	
Length from hole center to component center	P2	7.5±1.5	Deviation of progress direction
Length from hole center to lead	P1	3.75±1.0	
Body diameter	D	Please refer to [Part 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 bottom planes	НО	18.0± ^{2.0}	
Protrusion length	Q	+0.5~-1.0	
Diameter of sprocket hole	φ D 0	4.0±0.1	
Lead diameter	φd	0.60±0.05	
Total tape thickness	t1	0.6±0.3	They include hold down tape thickness.
Total thickness, tape and lead wire	t2	1.5 max.	
Deviation across tape, front	∆h1	2.0 max.	
Deviation across tape, rear	∆h2		
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 [Part number list].	

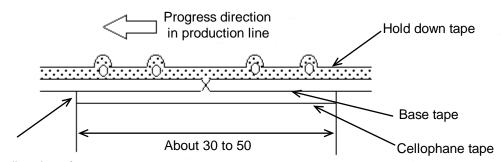
7-2. Splicing way of tape

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



2) Splicing of tape

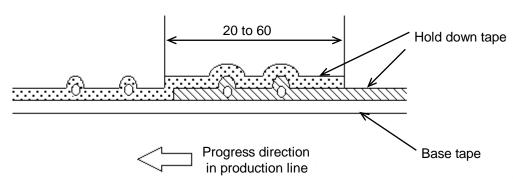
- a) When base tape is spliced
 - •Base tape should be spliced by cellophane tape. (Total tape thickness should be less than 1.05mm.)



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.

EU RoHS and Halogen Free

This products of the following crresponds to EU RoHS and Halogen Free

(1) RoHS

EU RoHs 2011/65/EC compliance

maximum concentration values tolerated by weight in homogeneous materials

- •1000 ppm maximum Lead
- •1000 ppm maximum Mercury
- •100 ppm maximum Cadmium
- •1000 ppm maximum Hexavalent chromium
- •1000 ppm maximum Polybrominated biphenyls (PBB)
- •1000 ppm maximum Polybrominated diphenyl ethers (PBDE)

(2) Halogen-Free

The International Electrochemical Commission's (IEC) Definition of Halogen-Free (IEC 61249-2-21) compliance

- •900 ppm maximum chlorine
- •900 ppm maximum bromine
- •1500 ppm maximum total chlorine and bromine

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33910103 YV101103Z060HAND5P 46KN3330JBM1K 413N32200000M 463I333000M1K 46KF2470JBN0M 46KF268000M1M

46KF310000M1M 46KI22205001M 46KI24705201K 46KI2470CK01M 46KI2470ND01K 46KI2680JH01M 46KI315000M2K

46KI315000M2M 46KI3150CKM2K 46KI3150CKM2M 46KI3150NDM2M 46KI3220CKP0M 46KI3220JLM1M 46KN3150JH01K

46KN34705001K 46KN347050N0K 46KN3470JHP0M 46KN410040H1M 46KW510050M1K 474I24700003K PHE840MD6220MD13R30

PHE840MY6470MD14R06 PHE845VD5470MR06 YV500103Z060B20X5P MKPX2R-1/400/10P27 YP102271K050B20C6P

YP102391K050BAND5P YP501101K040BAND5P YP102681K060B20C6P YP501121K040B20C6P