⚠ 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.

When DC-rated capacitors are to be used in input circuits from commercial power source (AC filter), be sure to use Safety Recognized Capacitors because various regulations on withstand voltage or impulse withstand established for each equipment should be taken into considerations.

Voltage	DC Voltage	DC+AC Voltage	AC Voltage	Pulse Voltage(1)	Pulse Voltage(2)
Positional Measurement	Vo-p	Vo-p	Vp-p	Vp-p	Vp-p

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 high-frequency current, pulse current or similar current, it may self- generate heat due to dielectric-loss. The frequency of the applied sine wave voltage should be less than 300kHz. The applied voltage load(*) should be such that the capacitor's self-generated heat is within 20 °C at the atmosphere temperature of 25 °C. When measuring, use a thermocouple of small thermal capacity-K of ϕ 0.1mm in conditions where the capacitor is not affected by radiant heat from other components or surrounding ambient fluctuations. 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.)

* Before using SL characteristic capacitor (low dissipation), be sure to read the instructions in item 4.

3. 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.

4. LOAD REDUCTION AND SELF-GENERATED HEAT DURING APPLICATION OF HIGH-FREQUENCY AND HIGH-VOLTAGE

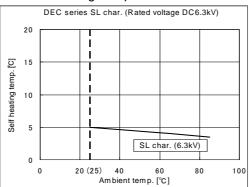
In the case of SL characteristic capacitors, due to the low self-heating characteristics of low-dissipation capacitor, the allowable electric power is much higher than the general B characteristic. However, in case the self-heating temperature is 20 °C under a high-frequency voltage whose peak-to-peak value equals the

capacitors rated voltage, the capacitors power consumption may exceeded it's allowable electric power. Therefore, when using the SL characteristic capacitors in a high-frequency and high-voltage circuit with a frequency of 1kHz or higher, make sure that the Vp-p values including the DC bias, do not exceed the applied voltage value specified in Table 1. Also make sure that the self-heating temperature (the difference between the capacitor's surface temperature and the capacitor's ambient temperature) at an ambient temperature of 25 °C does not exceed the value specified in Table 1.

As shown in Fig. 1, the self-heating temperature depends on the ambient temperature. Therefore, if you are not able to set the ambient temperature to approximately 25 °C, please contact our sales representatives or product engineers.

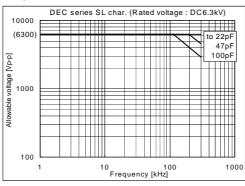
Tomp	DC Rated	Allowable Condi	tions at High-frequency *3	Capacitor's
Char.		Applied Voltage	Ambient	
Citai.		(max.)	(25 °C Ambient Temp.) *1	Temp. *2
SL	6.3kV	6300Vp-p	5 °C max.	-25 to +85 °C

- *1 When the ambient temperature is 85 to 125 °C, the applied voltage needs to be further reduced. If the low-dissipation capacitors need to be used at an ambient temperature of 85 to 125 °C, please contact our sales representatives or product engineers.
- *2 Fig. 2 shows reference data on the allowable voltage-frequency characteristic for a sine wave voltage. <Fig. 1> Dependence of Self-heating Temperature on Ambient Temperature



<Fig. 2> Allowable Voltage (Sine Wave Voltage) – Frequency Characteristic [At Ambient Temperature of 85 °C or less]

Because of the influence of harmonics, when the applied voltage is a rectangular wave or pulse wave voltage (instead of a sine wave voltage), the heat generated by the capacitor is higher than the value obtained by application of the sine wave with the same fundamental frequency. Roughly calculated for reference, the allowable voltage for a rectangular wave or pulse wave corresponds approximately to the allowable voltage for a sine wave whose fundamental frequency is twice as large as that of the rectangular wave or pulse wave. This allowable voltage, however, varies depending on the voltage and current waveforms. Therefore, you are requested to make sure that the self-heating temperature is not higher than the value specified in Table 1.



EGD12F

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 chip: 400 °C max. Soldering iron wattage: 50 W max. Soldering time: 3.5 s 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.

⚠ 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.

EGD12F

1. Application

This specification is applied to Lead Type Disc Ceramic Capacitors of DC6.3 kV ratings and Class1,2 of DEC series used for General Electric equipment.

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

2. Rating

2-1. Operating temperature range

-25 ~ +85°C

2-2. Part number configuration

ex.) DEC B3 3J 102 K C4 B
Series Temperature Rated Capacitance Capacitance Capacitance tolerance code style code specification

•Temperature characteristic

Code	Temperature characteristic
1X	SL
В3	В
E3	Е

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

Rated voltage

Code	Rated voltage
3J	DC6.3kV

Capacitance

The first two digits denote significant figures; the last digit denotes the multiplier of 10 in pF. ex.) In case of 102.

$$10 \times 10^2 = 1000 pF$$

• Capacitance tolerance

Please refer to [Part number list].

• Lead code

Code	Lead style
A*	Vertical crimp long type
C*	Straight long type

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

Solder coated copper wire is applied for termination.

• Packing style code

Code	Packing type
В	Bulk type

• Individual specification

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

3. Marking

Temperature characteristic : Letter code (Omitted for char. SL, char. E and maximum body

diameter ϕ 9mm and under of char. B.)

Nominal capacitance : Actual value (under 100pF)

3 digit system (100pF and over)

Capacitance tolerance : Code

Rated voltage : Letter code (In case of DC6.3kV marked with 6KV)

(Omitted for maximum body diameter ϕ 9mm and under)

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

(Omitted for maximum body diameter ϕ 7mm and under)

Manufacturing month : Code(Omitted for maximum body diameter φ 7mm and under)

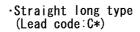
Feb./Mar. \rightarrow 2 Aug./Sep. \rightarrow 8 Apr./May \rightarrow 4 Oct./Nov. \rightarrow O Dec./Jan. \rightarrow D

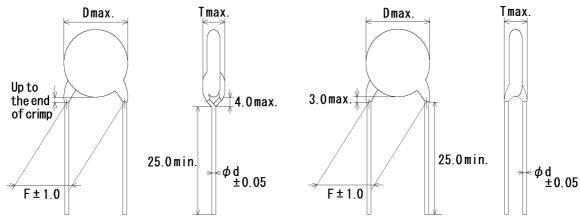
(Example)

B 102K 6KV (M 0D

4. Part number list

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



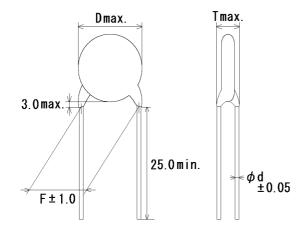


Note) The mark '*' of lead code differ from lead spacing(F) and lead diameter(d).
Please see the following list about details.

Unit · mm

										Unit :	mm
Τ.Ο	Cap.	0 (-1	O coto o con Boot Mouston	Marrie Bart Nevel an	DC DC	Din	nensi	on (m	m)	Lead	Pack
T.C.	(pF)	Cap. tol.	Customer Part Number	Murata Part Number	Rated Volt. (V)	D	Т	F	d	Code	qty. (pcs)
SL	10	±5%		DEC1X3J100JA3BMS1	6300	7.0	7.0	7.5	0.6	A3	250
SL	10	±5%		DEC1X3J100JC4BMS1	6300	7.0	7.0	10.0	0.6	C4	250
SL	12	±5%		DEC1X3J120JA3B	6300	8.0	7.0	7.5	0.6	A3	250
SL	12	±5%		DEC1X3J120JC4B	6300	8.0	7.0	10.0	0.6	C4	250
SL	15	±5%		DEC1X3J150JA3B	6300	8.0	7.0	7.5	0.6	A3	250
SL	15	±5%		DEC1X3J150JC4B	6300	8.0	7.0	10.0	0.6	C4	250
SL	18	±5%		DEC1X3J180JA3B	6300	9.0	7.0	7.5	0.6	A3	250
SL	18	±5%		DEC1X3J180JC4B	6300	9.0	7.0	10.0	0.6	C4	250
SL	22	±5%		DEC1X3J220JA3B	6300	9.0	7.0	7.5	0.6	A3	250
SL	22	±5%		DEC1X3J220JC4B	6300	9.0	7.0	10.0	0.6	C4	250
SL	27	±5%		DEC1X3J270JA3B	6300	9.0	7.0	7.5	0.6	A3	250
SL	27	±5%		DEC1X3J270JC4B	6300	9.0	7.0	10.0	0.6	C4	250
SL	33	±5%		DEC1X3J330JA3B	6300	9.0	7.0	7.5	0.6	A3	250
SL	33	±5%		DEC1X3J330JC4B	6300	9.0	7.0	10.0	0.6	C4	250
SL	39	±5%		DEC1X3J390JA3B	6300	9.0	7.0	7.5	0.6	A3	250
SL	39	±5%		DEC1X3J390JC4B	6300	9.0	7.0	10.0	0.6	C4	250
SL	47	±5%		DEC1X3J470JA3B	6300	9.0	7.0	7.5	0.6	A3	250
SL	47	±5%		DEC1X3J470JC4B	6300	9.0	7.0	10.0	0.6	C4	250
SL	56	±5%		DEC1X3J560JC4B	6300	10.0	7.0	10.0	0.6	C4	100
SL	68	±5%		DEC1X3J680JC4B	6300	12.0	7.0	10.0	0.6	C4	100
SL	82	±5%		DEC1X3J820JC4B	6300	12.0	7.0	10.0	0.6	C4	100
SL	100	±5%		DEC1X3J101JC4B	6300	13.0	7.0	10.0	0.6	C4	100
SL	120	±5%		DEC1X3J121JC4B	6300	14.0	7.0	10.0	0.6	C4	100
SL	150	±5%		DEC1X3J151JC4B	6300	15.0	7.0	10.0	0.6	C4	100
В	100	±10%		DECB33J101KC4B	6300	9.0	7.0	10.0	0.6	C4	250
В	150	±10%		DECB33J151KC4B	6300	9.0	7.0	10.0	0.6	C4	250
В	220	±10%		DECB33J221KC4B	6300	9.0	7.0	10.0	0.6	C4	250
					-						,

·Straight long type (Lead code:C*)



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

Unit: mm

	Onit: min										
T.C. Cap. (pF)	Cap. tol.	Customer Part Number	Murata Part Number	DC Rated Volt	Dimension (mm)				Lead	Pack	
	Сар. тог.	Customer Fait Number	Murata Fait Number	(V)	D	Т	F	đ	Code	qty. (pcs)	
В	330	±10%		DECB33J331KC4B	6300	9.0	7.0	10.0	0.6	C4	250
В	470	±10%		DECB33J471KC4B	6300	10.0	7.0	10.0	0.6	C4	100
В	680	±10%		DECB33J681KC4B	6300	11.0	7.0	10.0	0.6	C4	100
В	1000	±10%		DECB33J102KC4B	6300	13.0	7.0	10.0	0.6	C4	100
Е	1000	+80/-20%		DECE33J102ZC4B	6300	11.0	7.0	10.0	0.6	C4	100
Е	2200	+80/-20%		DECE33J222ZC4B	6300	15.0	7.0	10.0	0.6	C4	100

No.	ecification and test		Specification	Test method			
1	Appearance and o		No marked defect on appearar form and dimensions. Please refer to [Part number li	nce The capacitor should be inspected by naked eyes for visible evidence of defect.			
2	Marking		To be easily legible.	The capacitor should be inspected by naked eyes.			
3	Dielectric strength	Between lead wires	No failure.	The capacitor should not be damaged when DC voltage of 200% of the rated voltage are applied between the lead wires for 1 to 5 s. (Charge/Discharge current≤50mA.)			
	Body insulation		No failure.	The capacitor is placed in the container with metal balls of diameter 1mm so that each lead wire, shortcircuited, is kept about 2mm off the balls as shown in the figure, and DC voltage of 1.3kV is applied for 1 to 5 s between capacitor lead wires and small metals. (Charge/Discharge current≤50mA.)			
4	Insulation Resistance (I.R.)	Between lead wires	10 000M Ω min.	The insulation resistance should be measured with DC500±50V within 60±5 s of charging.			
5	Capacitance		Within specified tolerance.	The capacitance should be measured at 20°C with 1±0.2kHz (Char. SL : 1±0.2MHz) and AC5V(r.m.s.) max			
6	Q Dissipation Factor	(D.E.)	Char. SL: 400+20C*2min. (30pF und 1000 min. (30pF min.) Char. B,E: 2.5% max.	The dissipation factor and Q should be measured			
7	Temperature chara		Char. SL: +350 to - 1000ppm/	°C The capacitance measurement should be made at			
			•	e stored at 85±2°C for 1 h, then placed at *1room h before initial measurements. (Char. B,E) 2 3 4 5 ±2 -25±3 20±2 85±2 20±2			
8	Strength of lead	Pull	Lead wire should not cut off. Capacitor should not be broke	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			
	Bending			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 then returned to its original position and bent 90° in the opposite direction at the rate of one bend in 2 to			
9	Vibration resistance	Appearance Capacitance	No marked defect. Within specified tolerance.	3 s. The capacitor should be firmly soldered to the supporting lead wire and vibrated at a frequency			
		Q D.F.	Char. SL: 400+20C*2min. (30pF und 1 000 min. (30pF min.) Char. B,E: 2.5% max.	range of 10 to 55Hz, 1.5mm in total amplitude, with about a 1min rate of vibration change from 10Hz to 55Hz and back to 10Hz. Apply for a total of 6 h; 2 h each in 3 mutually perpendicular directions.			
10	Solderability of leads		Lead wire should be soldered with uniformly coated on the a direction over 3/4 of the circumferential direction.	The lead wire of a capacitor should be dipped into			

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

*2 "C" expresses nominal capacitance value (pF)

N.			Reference only	Table 10 1						
No.	Ite		Specification	Test method						
11	Soldering effect	Appearance	No marked defect.	The lead wire should be immersed into the melted						
	(Non-preheat)	Capacitance	Char. SL: Within ± 2.5%	solder of 350±10°C up to about 1.5 to 2.0mm from						
		change	Char. B: Within ± 5%	the main body for 3.5±0.5 s.						
			Char. E: Within ± 15%	Pre-treatment : Capacitor should be stored at						
		Dielectric	Per item 3.	85±2°C for 1 h, then placed at						
		strength		*1room condition for 24±2 h before						
		(Between		initial measurements. (Char. B,E)						
		lead wires)		Post-treatment : Capacitor should be stored for 1 to						
				2 h at *1room condition. (Char. SL)						
				Post-treatment: Capacitor should be stored for 4 to						
40	Caldaniaaa	A = = = = = = = = = = = = = = = = = = =	No months of defect	24 h at *1room condition. (Char. B,E) First the capacitor should be stored at 120+0/-5°C						
12	Soldering effect	Appearance	No marked defect.	for 60+0/-5 s.						
	(On-preheat)	Capacitance	Char. SL: Within ± 2.5%	Then, as in figure, the lead wires should be						
		change	Char. B: Within ± 5%	immersed solder of 260+0/-5°C up to 1.5 to 2.0mm						
			Char. E: Within ± 15%	from the root of terminal for 7.5+0/-1 s.						
		Dielectric	Per item 3.							
		strength		Thermal						
		(Between		insulating () ^p						
		lead wires)		1.5 to 2.0mm						
				- - -						
				solder						
				Pre-treatment : Capacitor should be stored at						
				85±2°C for 1 h, then placed at						
				*1room condition for 24±2 h before						
				initial measurements. (Char. B,E)						
				Post-treatment : Capacitor should be stored for 1 to						
				2 h at *1room condition. (Char. SL)						
				Post-treatment : Capacitor should be stored for 4 to						
				24 h at *1room condition.						
				(Char. B,E)						
13	Humidity	Appearance	No marked defect.	Set the capacitor for 500 +24/-0 h at 40±2°C in 90						
	(Under steady	Capacitance	Char. SL: Within ± 5%	to 95% relative humidity.						
	state)	change	Char. B: Within ±10%	Pre-treatment: Capacitor should be stored at						
			Char. E: Within ±20%	85±2°C for 1 h, then placed at						
		Q	Char. SL:	*1room condition for 24±2 h before						
			275+5/2C*2min. (30pF under)	initial measurements. (Char. B,E)						
			350 min. (30pF min.)	Post-treatment : Capacitor should be stored for 1 to						
		D.F.	Char. B,E: 5.0% max.	2 h at *1room condition.						
		I.R.	1000MΩ min.							
14	Humidity loading	Appearance	No marked defect.	Apply the rated voltage for 500 +24/-0 h at 40±2°C						
		Capacitance	Char. SL: Within ± 7.5%	in 90 to 95% relative humidity.						
		change	Char. B : Within ±10%	(Charge/Discharge current≤50mA.)						
			Char. E: Within ±20%	Pre-treatment : Capacitor should be stored at						
		Q	Char. SL:	85±2°C for 1 h, then placed at						
			100+10/3C*2min. (30pF under)	*1room condition for 24±2 h before						
			200 min. (30pF min.)	initial measurements. (Char. B,E)						
		D.F.	Char. B,E: 5.0% max.	Post-treatment : Capacitor should be stored for 1 to						
		I.R.	500M $Ω$ min.	2 h at *1room condition. (Char. SL)						
				Post-treatment : Capacitor should be stored at						
				85±2°C for 1 h, then placed at						
				*1room condition for 24±2 h.						
				(Char. B,E)						
*1	*1 "room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa									

^{*1 &}quot;room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa *2 "C" expresses nominal capacitance value (pF)

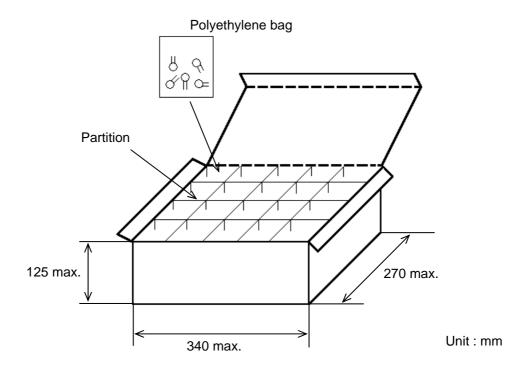
			Neierence only							
No.	Item		Specification	Test method						
15	Life	Appearance	No marked defect.	Apply	a DC v	oltage of 150	rated voltage			
		Capacitance	Char. SL: Within ± 3%	for 1 000 +48/-0 h at 85±2°C, and relative humidity						
		change	Char. B : Within ±10%	of 50% max (Charge/Discharge current≤50mA.)						
			Char. E: Within ±20%	Pre-t	eatmen	t : Capacitor	should b	e stored at		
		Q	Char. SL:					n placed at		
			275+5/2C*2min. (30pF under)			*1room co	ndition fo	r 24±2 h before		
			350 min. (30pF min.)					nts. (Char. B,E)		
		D.F.	Char. B,E: 4.0% max.	Post-	treatme			e stored for 1 to		
		I.R.	2000M $Ω$ min.	Б.				ition. (Char. SL)		
				Post-	treatme	nt : Capacitor				
								n placed at		
				*¹room condition for 24			r 24±2 h.			
4.0	T	A	No months of plate at	The	:	(Char. B,		to F to man another		
16	Temperature and	Appearance	No marked defect.					to 5 temperature ersion cycles.		
	Immersion cycle	Capacitance change	Char. SL: Within ± 3%	Cycle	s, men c	consecutively	10 2 1111111	lersion cycles.		
	Illinersion cycle	Change	Char. B: Within ±10%	<temperature cycle=""></temperature>						
			Char. E: Within ±20%	×1011			(2.0)	T		
		Q	Char. SL:		Step	Temperatu		Time		
			275+5/2C*2min. (30pF under)		1	-25±3		30 min		
		D.E.	350 min. (30pF min.)		2	Room Te		3 min		
		D.F.	Char. B,E: 4.0% max.		3	+85±3		30 min		
		Dielectric	2 000MΩ min. Per item 3.		4	Room Te		3 min		
		strength	Per item 3.	Cycle time : 5 cycle						
		(Between		<lmn< td=""><td>ersion o</td><td></td></lmn<>	ersion o					
		lead wires)		Ste	Tem	perature(°C)	Time	Immersion water		
				1	4	-65+5/-0	15 min	Clean		
				-				Salt		
				2		0±3	15 min	water		
							Cvcle t	ime : 2 cycle		
					Sycie time :					
				Pre-treatment: Capacitor should be stored at				e stored at		
						85±2°C fo	r 1 h, the	n placed at		
				*1room condition for 24±2 h before				24±2 h before		
								ts. (Char. B,E)		
				Post-	Post-treatment : Capacitor should be stored for 4 to					
						24 h at *1r		dition.		
*1	"room condition" Te	mnerature: 15 to	35°C. Relative humidity: 45 to 75% A	tmoen	oric pre	secure 86 to	106kDa			

^{*1 &}quot;room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa *2 "C" expresses nominal capacitance value (pF)

6. Packing specification

•Bulk type (Packing style code : B)

The size of packing case and packing way



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

*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.

EU RoHS RoHS指令への対応

This products of the following crresponds to EU RoHS 当製品は以下の欧州RoHSに対応しています。

(1) RoHS

EU RoHs 2011/65/EC compliance 2011/65/EC(改正RoHS指令)に対応

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)

鉛:1000ppm以下 水銀:1000ppm以下 カドミウム:100ppm以下 六価クロム:1000ppm以下

ポリ臭化ビフェニル(PBB): 1000ppm以下

ポリ臭化ジフェニルエーテル(PBDE): 1000ppm以下

Mouser Electronics

Authorized Distributor

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Murata:

```
        DEC1X3J121JC4B
        DECB33J151KC4B
        DEC1X3J151JC4B
        DECB33J101KC4B
        DEC1X3J270JC4B

        DECB33J221KC4B
        DEC1X3J220JC4B
        DEC1X3J101JC4B
        DECE33J102ZC4B
        DEC1X3J470JC4B

        DEC1X3J560JC4B
        DEC1X3J330JC4B
        DECB33J331KC4B
        DECB33J471KC4B
        DECB33J681KC4B

        DEC1X3J390JC4B
        DEC1X3J820JC4B
        DECE33J222ZC4B
        DECB33J102KC4B
        DEC1X3J680JC4B

        DEC1X3J050DC4BMS1
        DEC1X3J100JC4BMS1
        DEC1X3J100JC4BMS1
        DEC1X3J120JA3B
        DEC1X3J120JA3B

        DEC1X3J150JA3B
        DEC1X3J150JC4B
        DEC1X3J180JA3B
        DEC1X3J180JC4B
        DEC1X3J220JA3B

        DEC1X3J100JC4B
        DEC1X3J330JA3B
        DEC1X3J390JA3B
        DEC1X3J470JA3B
        DEC1X3J050DC4B
```