Reference Specification

150°C Operation Leaded MLCC for Automotive with AEC-Q200
RH Series

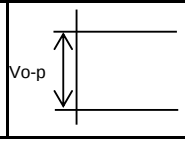
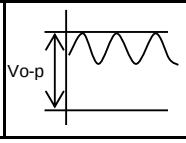
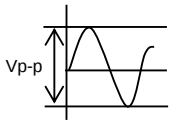
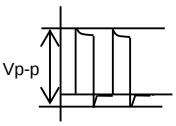
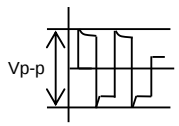
Product specifications in this catalog are as of Mar. 2022, and are subject to change or obsolescence without notice.
Please consult the approval sheet before ordering.Please read rating and Cautions first.

⚠ 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.

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					

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. In case of Class 2 capacitors (Temp.Char. : X7R,X7S,X8L, etc.), applied voltage should be the load such as self-generated heat is within 20 °C on the condition of atmosphere temperature 25 °C. Please contact us if self-generated heat is occurred with Class 1 capacitors (Temp.Char. : C0G,U2J,X8G, etc.). When measuring, use a thermocouple of small thermal capacity-K of Φ0.1mm 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.

3. FAIL-SAFE

Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product.

4. 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 5 to 40 °C and 20 to 70%. Use capacitors within 6 months.

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.

7. BONDING AND RESIN MOLDING, RESIN COAT

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 a bonded or molded 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 or molding resin may cause a outer coating resin cracking and/or ceramic element cracking of a capacitor in a temperature cycling.

8. TREATMENT AFTER BONDING AND RESIN MOLDING, RESIN COAT

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. 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. SOLDERING AND MOUNTING

Insertion of the Lead Wire

- When soldering, insert the lead wire into the PCB without mechanically stressing the lead wire.
- Insert the lead wire into the PCB with a distance appropriate to the lead space.

3. CAPACITANCE CHANGE OF CAPACITORS

- Class 2 capacitors (Temp.Char. : X7R,X7S,X8L etc.)

  Class 2 capacitors 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.

1. Application

This specification is applied to 150℃ Operation Leaded MLCC RHE series in accordance with AEC-Q200 requirements used for Automotive Electronic equipment.

2. Rating

• Applied maximum temperature up to 150℃

Note : Maximum accumulative time to 150℃ is within 2000 hours.

• Part Number Configuration

ex.)	RHE	5G	1H	101	J	0	A2	H03	B
	Series	Temperature Characteristics	Rated Voltage	Capacitance	Capacitance Tolerance	Dimension (LxW)	Lead Style	Individual Specification	Package

• Series

Code	Content
RHE	Epoxy coated, 150°C max.

• Temperature Characteristics

Code	Temp. Char.	Temp. Range	Temp.coef.	Standard Temp.	Operating Temp. Range
5G	X8G (Murata code)	25～150°C	0+/-30ppm/°C	25°C	-55～150°C

• Rated Voltage

Code	Rated voltage
1H	DC50V
2A	DC100V

• Capacitance

The first two digits denote significant figures ; the last digit denotes the multiplier of 10 in pF.

ex.) In case of 101

10×10^{1} = 100pF

• Capacitance Tolerance

Code	Capacitance Tolerance
J	+/-5%

• Dimension (LxW)

Please refer to [Part number list].

• Lead Style

*Lead wire is "solder coated CP wire".

Code	Lead Style	Lead spacing (mm)
A2	Straight type	2.5+/-0.8
DB	Straight taping type	2.5+0.4/-0.2
K1	Inside crimp type	5.0+/-0.8
M1	Inside crimp taping type	5.0+0.6/-0.2

• Individual Specification

Murata's control code.

Please refer to [Part number list].

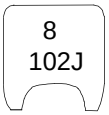
• Package

Code	Package
A	Taping type of Ammo
B	Bulk type

3. Marking

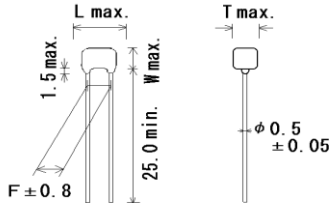
Temp. char. : Letter code : 8 (X8G char.)
Capacitance : 3 digit numbers
Capacitance tolerance : Code

(Ex.)

Dimension code	Ex.
0,1	

4. Part number list

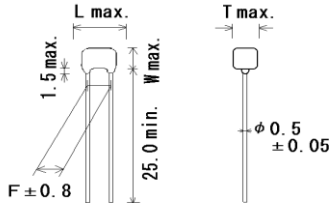
・Straight Long
(Lead Style:A2)



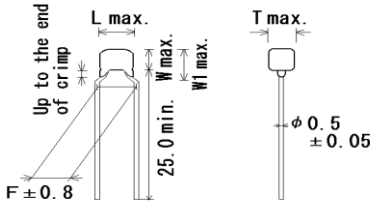
Unit : mm

Customer Part Number	Murata Part Number	T.C.	DC Rated Volt. (V)	Cap.	Cap. Tol.	Dimension (mm)					Dimension (LxW) Lead Style	Pack qty. (pcs)
						L	W	W1	F	T		
	RHE5G1H101J0A2H03B	X8G	50	100pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H121J0A2H03B	X8G	50	120pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H151J0A2H03B	X8G	50	150pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H181J0A2H03B	X8G	50	180pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H221J0A2H03B	X8G	50	220pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H271J0A2H03B	X8G	50	270pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H331J0A2H03B	X8G	50	330pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H391J0A2H03B	X8G	50	390pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H471J0A2H03B	X8G	50	470pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H561J0A2H03B	X8G	50	560pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H681J0A2H03B	X8G	50	680pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H821J0A2H03B	X8G	50	820pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H102J0A2H03B	X8G	50	1000pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H122J0A2H03B	X8G	50	1200pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H152J0A2H03B	X8G	50	1500pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H182J0A2H03B	X8G	50	1800pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H222J0A2H03B	X8G	50	2200pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H272J0A2H03B	X8G	50	2700pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H332J0A2H03B	X8G	50	3300pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H392J0A2H03B	X8G	50	3900pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G1H472J1A2H03B	X8G	50	4700pF	±5%	4.0	3.5	-	2.5	2.5	1A2	500
	RHE5G1H562J1A2H03B	X8G	50	5600pF	±5%	4.0	3.5	-	2.5	2.5	1A2	500
	RHE5G1H682J1A2H03B	X8G	50	6800pF	±5%	4.0	3.5	-	2.5	2.5	1A2	500
	RHE5G1H822J1A2H03B	X8G	50	8200pF	±5%	4.0	3.5	-	2.5	2.5	1A2	500
	RHE5G1H103J1A2H03B	X8G	50	10000pF	±5%	4.0	3.5	-	2.5	2.5	1A2	500
	RHE5G2A101J0A2H03B	X8G	100	100pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G2A121J0A2H03B	X8G	100	120pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G2A151J0A2H03B	X8G	100	150pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G2A181J0A2H03B	X8G	100	180pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G2A221J0A2H03B	X8G	100	220pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G2A271J0A2H03B	X8G	100	270pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G2A331J0A2H03B	X8G	100	330pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G2A391J0A2H03B	X8G	100	390pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G2A471J0A2H03B	X8G	100	470pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G2A561J0A2H03B	X8G	100	560pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G2A681J0A2H03B	X8G	100	680pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G2A821J0A2H03B	X8G	100	820pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G2A102J0A2H03B	X8G	100	1000pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G2A122J0A2H03B	X8G	100	1200pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500
	RHE5G2A152J0A2H03B	X8G	100	1500pF	±5%	3.6	3.5	-	2.5	2.5	0A2	500

・Straight Long
(Lead Style:A2)



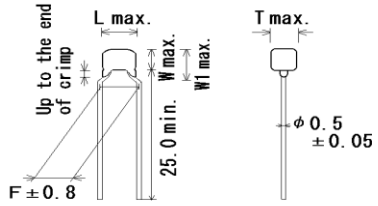
・Inside Crimp
(Lead Style:K*)



Unit : mm

Customer Part Number	Murata Part Number	T.C.	DC Rated Volt. (V)	Cap.	Cap. Tol.	Dimension (mm)					Dimension (LxW) Lead Style	Pack qty. (pcs)
						L	W	W1	F	T		
	RHE5G2A182J1A2H03B	X8G	100	1800pF	±5%	4.0	3.5	-	2.5	2.5	1A2	500
	RHE5G2A222J1A2H03B	X8G	100	2200pF	±5%	4.0	3.5	-	2.5	2.5	1A2	500
	RHE5G2A272J1A2H03B	X8G	100	2700pF	±5%	4.0	3.5	-	2.5	2.5	1A2	500
	RHE5G2A332J1A2H03B	X8G	100	3300pF	±5%	4.0	3.5	-	2.5	2.5	1A2	500
	RHE5G1H101J0K1H03B	X8G	50	100pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H121J0K1H03B	X8G	50	120pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H151J0K1H03B	X8G	50	150pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H181J0K1H03B	X8G	50	180pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H221J0K1H03B	X8G	50	220pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H271J0K1H03B	X8G	50	270pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H331J0K1H03B	X8G	50	330pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H391J0K1H03B	X8G	50	390pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H471J0K1H03B	X8G	50	470pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H561J0K1H03B	X8G	50	560pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H681J0K1H03B	X8G	50	680pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H821J0K1H03B	X8G	50	820pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H102J0K1H03B	X8G	50	1000pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H122J0K1H03B	X8G	50	1200pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H152J0K1H03B	X8G	50	1500pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H182J0K1H03B	X8G	50	1800pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H222J0K1H03B	X8G	50	2200pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H272J0K1H03B	X8G	50	2700pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H332J0K1H03B	X8G	50	3300pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H392J0K1H03B	X8G	50	3900pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G1H472J1K1H03B	X8G	50	4700pF	±5%	4.0	3.5	5.0	5.0	2.5	1K1	500
	RHE5G1H562J1K1H03B	X8G	50	5600pF	±5%	4.0	3.5	5.0	5.0	2.5	1K1	500
	RHE5G1H682J1K1H03B	X8G	50	6800pF	±5%	4.0	3.5	5.0	5.0	2.5	1K1	500
	RHE5G1H822J1K1H03B	X8G	50	8200pF	±5%	4.0	3.5	5.0	5.0	2.5	1K1	500
	RHE5G1H103J1K1H03B	X8G	50	10000pF	±5%	4.0	3.5	5.0	5.0	2.5	1K1	500
	RHE5G2A101J0K1H03B	X8G	100	100pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G2A121J0K1H03B	X8G	100	120pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G2A151J0K1H03B	X8G	100	150pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G2A181J0K1H03B	X8G	100	180pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G2A221J0K1H03B	X8G	100	220pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G2A271J0K1H03B	X8G	100	270pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G2A331J0K1H03B	X8G	100	330pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G2A391J0K1H03B	X8G	100	390pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G2A471J0K1H03B	X8G	100	470pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G2A561J0K1H03B	X8G	100	560pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G2A681J0K1H03B	X8G	100	680pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500

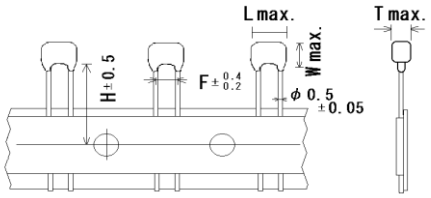
・Inside Crimp
(Lead Style:K*)



Unit : mm

Customer Part Number	Murata Part Number	T.C.	DC Rated Volt. (V)	Cap.	Cap. Tol.	Dimension (mm)					Dimension (LxW) Lead Style	Pack qty. (pcs)
						L	W	W1	F	T		
	RHE5G2A821J0K1H03B	X8G	100	820pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G2A102J0K1H03B	X8G	100	1000pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G2A122J0K1H03B	X8G	100	1200pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G2A152J0K1H03B	X8G	100	1500pF	±5%	3.6	3.5	6.0	5.0	2.5	0K1	500
	RHE5G2A182J1K1H03B	X8G	100	1800pF	±5%	4.0	3.5	5.0	5.0	2.5	1K1	500
	RHE5G2A222J1K1H03B	X8G	100	2200pF	±5%	4.0	3.5	5.0	5.0	2.5	1K1	500
	RHE5G2A272J1K1H03B	X8G	100	2700pF	±5%	4.0	3.5	5.0	5.0	2.5	1K1	500
	RHE5G2A332J1K1H03B	X8G	100	3300pF	±5%	4.0	3.5	5.0	5.0	2.5	1K1	500

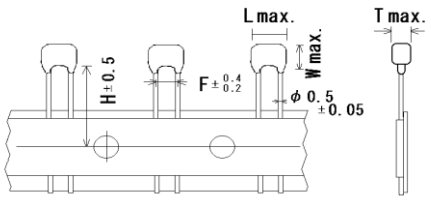
・Straight Taping
(Lead Style:D*)



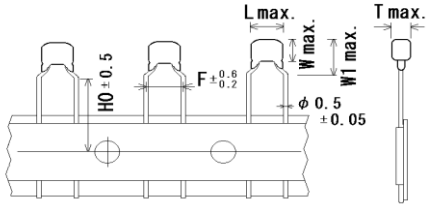
Unit : mm

Customer Part Number	Murata Part Number	T.C.	DC Rated Volt. (V)	Cap.	Cap. Tol.	Dimension (mm)						Dimension (LxW) Lead Style	Pack qty. (pcs)
						L	W	W1	F	T	H/H0		
	RHE5G1H101J0DBH03A	X8G	50	100pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H121J0DBH03A	X8G	50	120pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H151J0DBH03A	X8G	50	150pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H181J0DBH03A	X8G	50	180pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H221J0DBH03A	X8G	50	220pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H271J0DBH03A	X8G	50	270pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H331J0DBH03A	X8G	50	330pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H391J0DBH03A	X8G	50	390pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H471J0DBH03A	X8G	50	470pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H561J0DBH03A	X8G	50	560pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H681J0DBH03A	X8G	50	680pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H821J0DBH03A	X8G	50	820pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H102J0DBH03A	X8G	50	1000pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H122J0DBH03A	X8G	50	1200pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H152J0DBH03A	X8G	50	1500pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H182J0DBH03A	X8G	50	1800pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H222J0DBH03A	X8G	50	2200pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H272J0DBH03A	X8G	50	2700pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H332J0DBH03A	X8G	50	3300pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H392J0DBH03A	X8G	50	3900pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G1H472J1DBH03A	X8G	50	4700pF	±5%	4.0	3.5	-	2.5	2.5	16.0	1DB	2000
	RHE5G1H562J1DBH03A	X8G	50	5600pF	±5%	4.0	3.5	-	2.5	2.5	16.0	1DB	2000
	RHE5G1H682J1DBH03A	X8G	50	6800pF	±5%	4.0	3.5	-	2.5	2.5	16.0	1DB	2000
	RHE5G1H822J1DBH03A	X8G	50	8200pF	±5%	4.0	3.5	-	2.5	2.5	16.0	1DB	2000
	RHE5G1H103J1DBH03A	X8G	50	10000pF	±5%	4.0	3.5	-	2.5	2.5	16.0	1DB	2000
	RHE5G2A101J0DBH03A	X8G	100	100pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G2A121J0DBH03A	X8G	100	120pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G2A151J0DBH03A	X8G	100	150pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G2A181J0DBH03A	X8G	100	180pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G2A221J0DBH03A	X8G	100	220pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G2A271J0DBH03A	X8G	100	270pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G2A331J0DBH03A	X8G	100	330pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G2A391J0DBH03A	X8G	100	390pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G2A471J0DBH03A	X8G	100	470pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G2A561J0DBH03A	X8G	100	560pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G2A681J0DBH03A	X8G	100	680pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G2A821J0DBH03A	X8G	100	820pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G2A102J0DBH03A	X8G	100	1000pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G2A122J0DBH03A	X8G	100	1200pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000
	RHE5G2A152J0DBH03A	X8G	100	1500pF	±5%	3.6	3.5	-	2.5	2.5	16.0	0DB	2000

・Straight Taping
(Lead Style:D*)



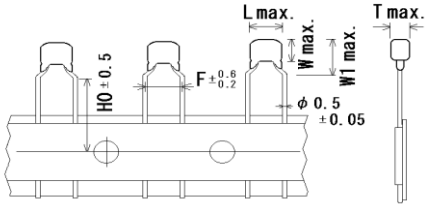
・Inside Crimp Taping
(Lead Style:M*)



Unit : mm

Customer Part Number	Murata Part Number	T.C.	DC Rated Volt. (V)	Cap.	Cap. Tol.	Dimension (mm)						Dimension (LxW) Lead Style	Pack qty. (pcs)
						L	W	W1	F	T	H/H0		
	RHE5G2A182J1DBH03A	X8G	100	1800pF	±5%	4.0	3.5	-	2.5	2.5	16.0	1DB	2000
	RHE5G2A222J1DBH03A	X8G	100	2200pF	±5%	4.0	3.5	-	2.5	2.5	16.0	1DB	2000
	RHE5G2A272J1DBH03A	X8G	100	2700pF	±5%	4.0	3.5	-	2.5	2.5	16.0	1DB	2000
	RHE5G2A332J1DBH03A	X8G	100	3300pF	±5%	4.0	3.5	-	2.5	2.5	16.0	1DB	2000
	RHE5G1H101J0M1H03A	X8G	50	100pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H121J0M1H03A	X8G	50	120pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H151J0M1H03A	X8G	50	150pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H181J0M1H03A	X8G	50	180pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H221J0M1H03A	X8G	50	220pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H271J0M1H03A	X8G	50	270pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H331J0M1H03A	X8G	50	330pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H391J0M1H03A	X8G	50	390pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H471J0M1H03A	X8G	50	470pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H561J0M1H03A	X8G	50	560pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H681J0M1H03A	X8G	50	680pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H821J0M1H03A	X8G	50	820pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H102J0M1H03A	X8G	50	1000pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H122J0M1H03A	X8G	50	1200pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H152J0M1H03A	X8G	50	1500pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H182J0M1H03A	X8G	50	1800pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H222J0M1H03A	X8G	50	2200pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H272J0M1H03A	X8G	50	2700pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H332J0M1H03A	X8G	50	3300pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H392J0M1H03A	X8G	50	3900pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G1H472J1M1H03A	X8G	50	4700pF	±5%	4.0	3.5	5.0	5.0	2.5	16.0	1M1	2000
	RHE5G1H562J1M1H03A	X8G	50	5600pF	±5%	4.0	3.5	5.0	5.0	2.5	16.0	1M1	2000
	RHE5G1H682J1M1H03A	X8G	50	6800pF	±5%	4.0	3.5	5.0	5.0	2.5	16.0	1M1	2000
	RHE5G1H822J1M1H03A	X8G	50	8200pF	±5%	4.0	3.5	5.0	5.0	2.5	16.0	1M1	2000
	RHE5G1H103J1M1H03A	X8G	50	10000pF	±5%	4.0	3.5	5.0	5.0	2.5	16.0	1M1	2000
	RHE5G2A101J0M1H03A	X8G	100	100pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G2A121J0M1H03A	X8G	100	120pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G2A151J0M1H03A	X8G	100	150pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G2A181J0M1H03A	X8G	100	180pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G2A221J0M1H03A	X8G	100	220pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G2A271J0M1H03A	X8G	100	270pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G2A331J0M1H03A	X8G	100	330pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G2A391J0M1H03A	X8G	100	390pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G2A471J0M1H03A	X8G	100	470pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G2A561J0M1H03A	X8G	100	560pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G2A681J0M1H03A	X8G	100	680pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000

・Inside Crimp Taping
(Lead Style: M∗)



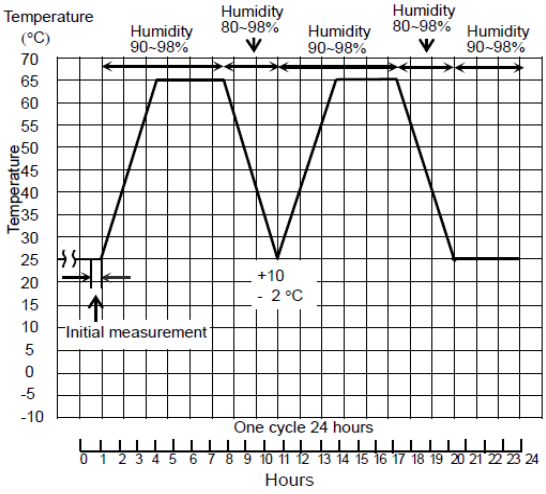
Unit : mm

Customer Part Number	Murata Part Number	T.C.	DC Rated Volt. (V)	Cap.	Cap. Tol.	Dimension (mm)						Dimension (LxW) Lead Style	Pack qty. (pcs)
						L	W	W1	F	T	H/H0		
	RHE5G2A821J0M1H03A	X8G	100	820pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G2A102J0M1H03A	X8G	100	1000pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G2A122J0M1H03A	X8G	100	1200pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G2A152J0M1H03A	X8G	100	1500pF	±5%	3.6	3.5	6.0	5.0	2.5	16.0	0M1	2000
	RHE5G2A182J1M1H03A	X8G	100	1800pF	±5%	4.0	3.5	5.0	5.0	2.5	16.0	1M1	2000
	RHE5G2A222J1M1H03A	X8G	100	2200pF	±5%	4.0	3.5	5.0	5.0	2.5	16.0	1M1	2000
	RHE5G2A272J1M1H03A	X8G	100	2700pF	±5%	4.0	3.5	5.0	5.0	2.5	16.0	1M1	2000
	RHE5G2A332J1M1H03A	X8G	100	3300pF	±5%	4.0	3.5	5.0	5.0	2.5	16.0	1M1	2000

5. AEC-Q200 Murata Standard Specifications and Test Methods

No.	AEC-Q200 Test Item		Specification	AEC-Q200 Test Method
1	Pre-and Post-Stress Electrical Test		-	
2	High Temperature Exposure (Storage)	Appearance	No defects or abnormalities.	Sit the capacitor for 1000±12h at 150±3°C. Let sit for 24±2h at *room condition, then measure.
		Capacitance Change	Within ±3% or ±0.3pF (Whichever is larger)	
		Q	Q ≧ 350	
		I.R.	1,000MΩ min.	
3	Temperature Cycling	Appearance	No defects or abnormalities except color change of outer coating.	Perform the 1000 cycles according to the four heat treatments listed in the following table. Let sit for 24±2 h at *room condition, then measure.
		Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	
		Q	Q ≧ 350	
		I.R.	1,000MΩ min.	
4	Moisture Resistance	Appearance	No defects or abnormalities.	Apply the 24h heat (25 to 65°C) and humidity (80 to 98%) treatment shown below, 10 consecutive times. Let sit for 24±2 h at *room condition, then measure.
		Capacitance Change	Within ±5% or ± 0.5pF (Whichever is larger)	
		Q	Q ≧ 200	
		I.R.	500MΩ min.	
5	Biased Humidity	Appearance	No defects or abnormalities.	Apply the rated voltage and DC1.3+0.2/-0V (add 100kΩ resistor) at 85±3°C and 80 to 85% humidity for 1000±12h. Remove and let sit for 24±2 h at *room condition, then measure. The charge/discharge current is less than 50mA.
		Capacitance Change	Within ±5% or ± 0.5pF (Whichever is larger)	
		Q	Q ≧ 200	
		I.R.	500MΩ min.	
6	Operational Life	Appearance	No defects or abnormalities except color change of outer coating.	Apply 150% of the rated voltage for 1000±12h at 150±3°C. Let sit for 24±2 h at *room condition, then measure. The charge/discharge current is less than 50mA.
		Capacitance Change	Within ±3% or ±0.3pF (Whichever is larger)	
		Q	Q ≧ 350	
		I.R.	1,000MΩ min.	
7	External Visual		No defects or abnormalities.	Visual inspection.
8	Physical Dimension		Within the specified dimensions.	Using calipers and micrometers.
9	Marking		To be easily legible.	Visual inspection.
10	Resistance to Solvents	Appearance	No defects or abnormalities.	Per MIL-STD-202 Method 215 Solvent 1 : 1 part (by volume) of isopropyl alcohol 3 parts (by volume) of mineral spirits Solvent 2 : Terpene defluxer Solvent 3 : 42 parts (by volume) of water 1part (by volume) of propylene glycol monomethyl ether 1 part (by volume) of monoethanolamine
		Capacitance	Within the specified tolerance.	
		Q	Q ≧ 1,000	
		I.R.	10,000MΩ min.	

Step	1	2	3	4
Temp. (°C)	-55+0/-3	Room Temp.	150+3/-0	Room Temp.
Time (min.)	15±3	1	15±3	1

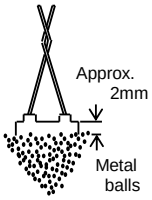


* "room condition" Temperature : 15 to 35°C, Relative humidity : 45 to 75%, Atmosphere pressure : 86 to 106kPa

No.	AEC-Q200 Test Item		Specification	AEC-Q200 Test Method
11	Mechanical Shock	Appearance	No defects or abnormalities.	Three shocks in each direction should be applied along 3 mutually perpendicular axes of the test specimen (18 shocks). The specified test pulse should be Half-sine and should have a duration : 0.5ms, peak value : 1500G and velocity change : 4.7m/s.
		Capacitance	Within the specified tolerance.	
		Q	Q ≧ 1,000	
12	Vibration	Appearance	No defects or abnormalities.	The capacitor should be subjected to a simple harmonic motion having a total amplitude of 1.5mm, the frequency being varied uniformly between the approximate limits of 10 and 2,000Hz. The frequency range, from 10 to 2000Hz and return to 10Hz, should be traversed in approximately 20 min. This motion should be applied for 12 items in each 3 mutually perpendicular directions (total of 36 times).
		Capacitance	Within the specified tolerance.	
		Q	Q ≧ 1,000	
13-1	Resistance to Soldering Heat (Non-Preheat)	Appearance	No defects or abnormalities.	The lead wires should be immersed in the melted solder 1.5 to 2.0mm from the root of terminal at 260±5°C for 10±1 seconds. • Post-treatment Capacitor should be stored for 24±2 hours at *room condition.
		Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	
		Dielectric Strength (Between terminals)	No defects	
13-2	Resistance to Soldering Heat (On-Preheat)	Appearance	No defects or abnormalities.	First the capacitor should be stored at 120+0/-5°C for 60+0/-5 seconds. Then, the lead wires should be immersed in the melted solder 1.5 to 2.0mm from the root of terminal at 260±5°C for 7.5+0/-1 seconds. • Post-treatment Capacitor should be stored for 24±2 hours at *room condition.
		Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	
		Dielectric Strength (Between terminals)	No defects	
13-3	Resistance to Soldering Heat (soldering iron method)	Appearance	No defects or abnormalities.	Test condition Temperature of iron-tip : 350±10°C Soldering time : 3.5±0.5 seconds Soldering position Straight Lead : 1.5 to 2.0mm from the root of terminal. Crimp Lead : 1.5 to 2.0mm from the end of lead bend. • Post-treatment Capacitor should be stored for 24±2 hours at *room condition.
		Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	
		Dielectric Strength (Between terminals)	No defects.	
14	Thermal Shock	Appearance	No defects or abnormalities.	Perform the 300 cycles according to the two heat treatments listed in the following table(Maximum transfer time is 20 seconds.). Let sit for 24±2 h at *room condition, then measure.
		Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	
		Q	Q ≧ 350	
		I.R.	1,000MΩ min.	
15	ESD	Appearance	No defects or abnormalities.	Per AEC-Q200-002
		Capacitance	Within the specified tolerance.	
		Q	Q ≧ 1,000	
		I.R.	10,000MΩ min.	
16	Solderability		Lead wire should be soldered with uniform coating on the axial direction over 95% of the circumferential direction.	The terminal of a capacitor is dipped into a solution of ethanol (JIS-K-8101) and rosin (JIS-K-5902) (25%rosin in weight propotion) and then into molten solder (JIS-Z-3282) for 2±0.5 seconds. In both cases the depth of dipping is up to about 1.5 to 2mm from the terminal body. Temp. of solder : 245±5°C Lead Free Solder (Sn-3.0Ag-0.5Cu) 235±5°C H60A or H63A Eutectic Solder

Step	1	2
Temp. (°C)	-55+0/-3	150+3/-0
Time (min.)	15±3	15±3

* “room condition” Temperature : 15 to 35°C, Relative humidity : 45 to 75%, Atmosphere pressure : 86 to 106kPa

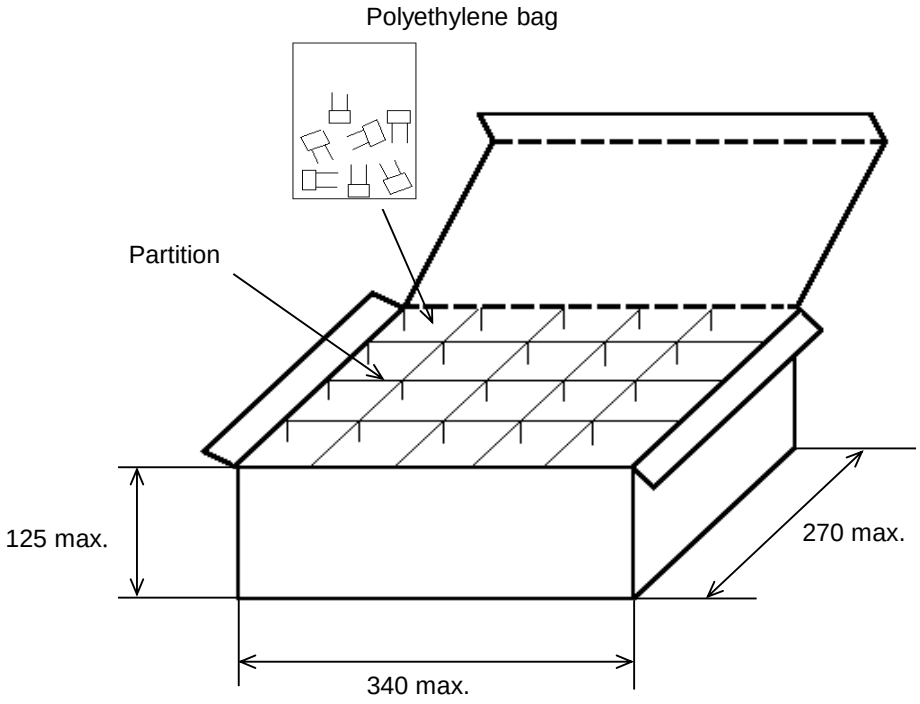
<table>
<tr><th>No.</th><th colspan="2">AEC-Q200
Test Item</th><th colspan="2">Specifications</th><th>AEC-Q200 Test Method</th></tr>
<tr><td rowspan="6">17</td><td rowspan="6">Electrical
Characte-
rization</td><td>Appearance</td><td colspan="2">No defects or abnormalities.</td><td>Visual inspection.</td></tr>
<tr><td>Capacitance</td><td colspan="2">Within the specified tolerance.</td><td rowspan="2">The capacitance, Q should be measured at 25°C at the frequency and voltage shown in the table.
<table><tr><th>Nominal Cap.</th><th>Frequency</th><th>Voltage</th></tr><tr><td>C ≦ 1000pF</td><td>1±0.1MHz</td><td>AC0.5 to 5V(r.m.s.)</td></tr><tr><td>C > 1000pF</td><td>1±0.1kHz</td><td>AC1±0.2V(r.m.s.)</td></tr></table></td></tr>
<tr><td>Q</td><td colspan="2">Q ≧ 1,000</td></tr>
<tr><td rowspan="3">Insulation
Resistance
(I.R.)</td><td>Room
Temperature</td><td>10,000MΩ min.</td><td>The insulation resistance should be measured at 25±3 °C with a DC voltage not exceeding the rated voltage at normal temperature and humidity and within 2 min. of charging.
(Charge/Discharge current ≦ 50mA.)</td></tr>
<tr><td>High
Temperature</td><td>100MΩ min.</td><td>The insulation resistance should be measured at 150±3 °C with a DC voltage not exceeding the rated voltage at normal temperature and humidity and within 2 min. of charging.
(Charge/Discharge current ≦ 50mA.)</td></tr>
<tr><td rowspan="2">Dielectric
Strength</td><td>Between
Terminals</td><td>No defects or abnormalities.</td><td>The capacitor should not be damaged when DC voltage of 300% of the rated voltage is applied between the terminations for 1 to 5 seconds.
(Charge/Discharge current ≦ 50mA.)</td></tr>
<tr><td>Body
Insulation</td><td>No defects or abnormalities.</td><td>The capacitor is placed in a container with metal balls of 1mm diameter so that each terminal, short-circuit is kept approximately 2mm from the balls, and 250% of the rated DC voltage is impressed for 1 to 5 seconds between capacitor terminals and metal balls.
(Charge/Discharge current ≦ 50mA.)
  </td></tr>
<tr><td rowspan="2">18</td><td rowspan="2">Terminal
Strength</td><td>Tensile
Strength</td><td colspan="2">Termination not to be broken or loosened.</td><td>As in the figure, fix the capacitor body, apply the force gradually to each lead in the radial direction of the capacitor until reaching 10N and then keep the force applied for 10±1 seconds.
  </td></tr>
<tr><td>Bending
Strength</td><td colspan="2">Termination not to be broken or loosened.</td><td>Each lead wire should be subjected to a force of 2.5N and then be bent 90° at the point of egress in one direction.
Each wire is then returned to the original position and bent 90° in the opposite direction at the rate of one bend per 2 to 3 seconds.</td></tr>
<tr><td>19</td><td colspan="2">Capacitance
Temperature
Characteristics</td><td colspan="2">Within the specified Tolerance.
25°C to 150°C : 0±30 ppm/°C
-55°C to 25°C : 0+30/-72 ppm/°C</td><td>The capacitance change should be measured after 5min. at each specified temperature step.
<table><tr><th>Step</th><th>Temperature(°C)</th></tr><tr><td>1</td><td>25±2</td></tr><tr><td>2</td><td>-55±3</td></tr><tr><td>3</td><td>25±2</td></tr><tr><td>4</td><td>150±3</td></tr><tr><td>5</td><td>25±2</td></tr></table>The temperature coefficient is determined using the capacitance measured in step 3 as a reference. When cycling the temperature sequentially from step 1 through 5 (-55°C to 150°C) the capacitance should be within the specified tolerance for the temperature coefficient and capacitance change as Table A.
The capacitance drift is calculated by dividing the differences between the maximum and minimum measured values in the step 1, 3 and 5 by the capacitance value in step 3.</td></tr>
</table>

* “room condition” Temperature : 15 to 35°C, Relative humidity : 45 to 75%, Atmosphere pressure : 86 to 106kPa

6. Packing specification

・Bulk type (Packing style code : B)

The size of packing case and packing way



Unit : mm

The number of packing = *1 Packing quantity × *2 n

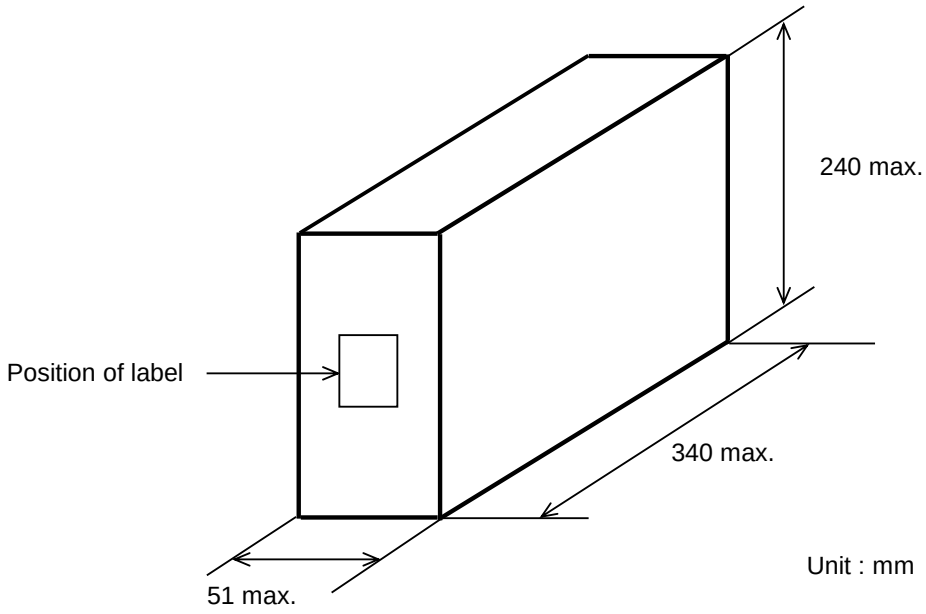
*1 : Please refer to [Part number list].
*2 : Standard n = 20 (bag)

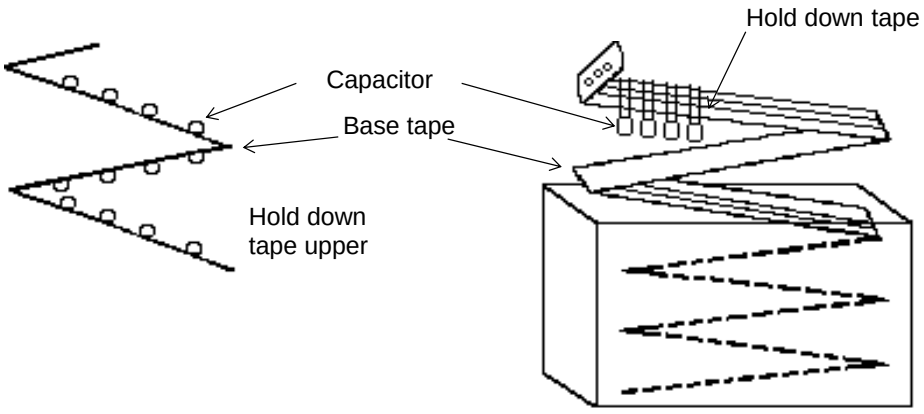
Note)
The outer package and the number of outer packing be changed by the order getting amount.

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

A crease is made every 25 pitches, and the tape with capacitors is packed zigzag into a case.
When body of the capacitor is piled on other body under it.

The size of packing case and packing way



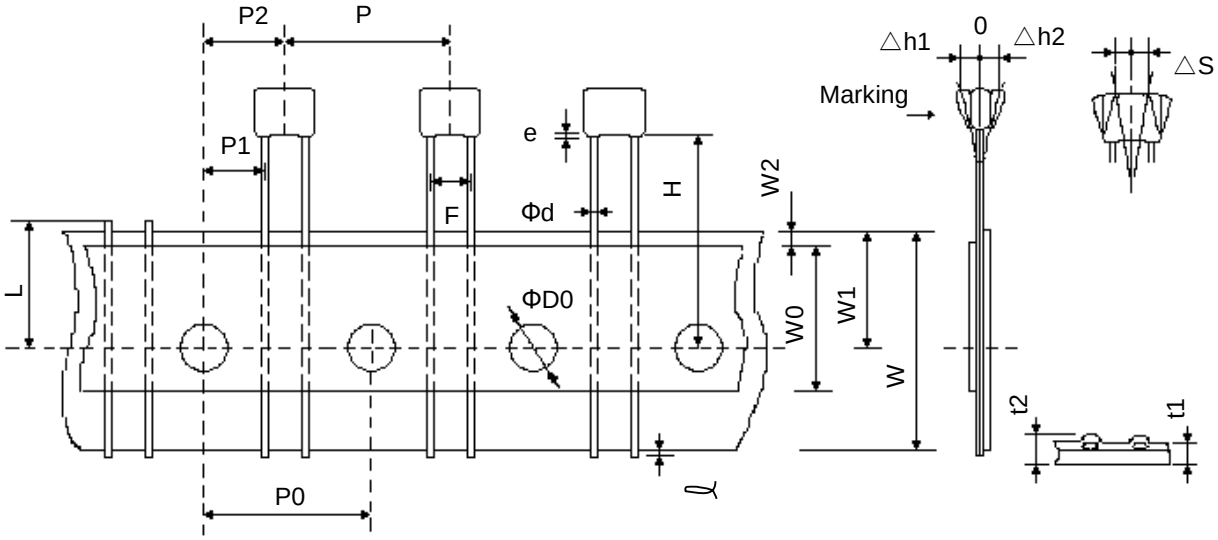


7. Taping specification

7-1. Dimension of capacitors on tape

Straight taping type < Lead Style : DB >

Pitch of component 12.7mm / Lead spacing 2.5mm

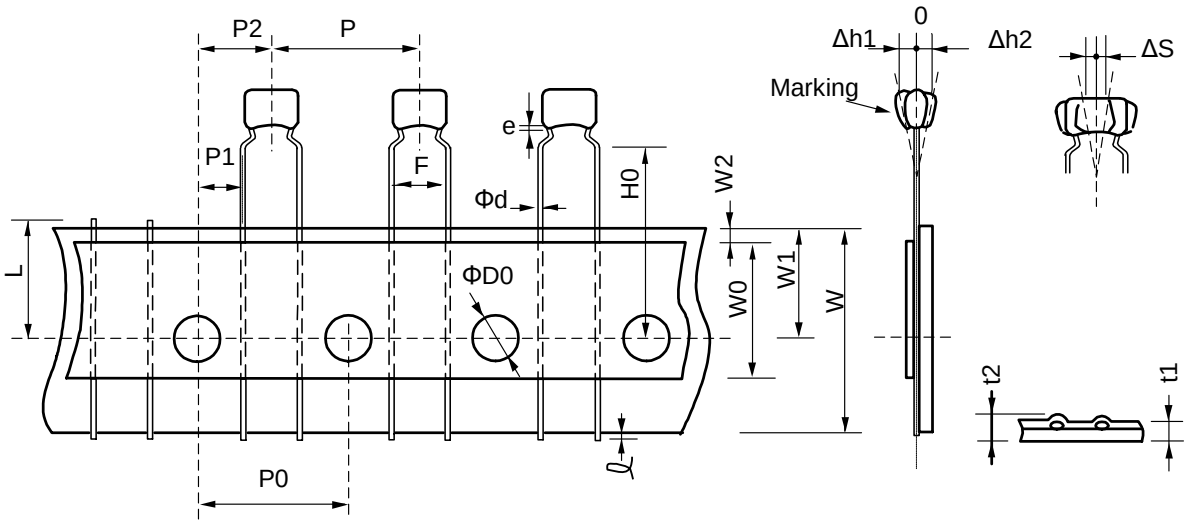


Unit : mm

Item	Code	Dimensions	Remarks
Pitch of component	P	12.7+/-1.0	
Pitch of sprocket hole	P0	12.7+/-0.2	
Lead spacing	F	2.5+0.4/-0.2	
Length from hole center to component center	P2	6.35+/-1.3	Deviation of progress direction
Length from hole center to lead	P1	5.1+/-0.7	
Deviation along tape, left or right defect	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/-0.5	Deviation of tape width direction
Lead distance between reference and bottom plane	H	16.0+/-0.5	
Protrusion length	ℓ	0.5 max.	
Diameter of sprocket hole	ΦD0	4.0+/-0.1	
Lead diameter	Φd	0.5+/-0.05	
Total tape thickness	t1	0.6+/-0.3	They include hold down tape thickness
Total thickness of tape and lead wire	t2	1.5 max.	
Deviation across tape	Δh1	1.0 max.	
	Δh2		
Portion to cut in case of defect	L	11.0+0/-1.0	
Hold down tape width	W0	9.5 min.	
Hold down tape position	W2	1.5+/-1.5	
Coating extension on lead	e	1.5 max.	

Inside crimp taping type < Lead Style : M1 >

Pitch of component 12.7mm / Lead spacing 5.0mm

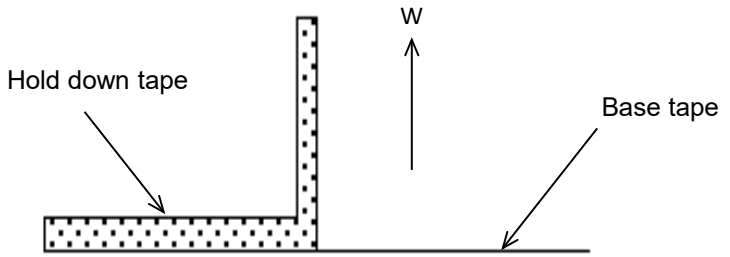


Unit : mm

Item	Code	Dimensions	Remarks
Pitch of component	P	12.7+/-1.0	
Pitch of sprocket hole	P0	12.7+/-0.2	
Lead spacing	F	5.0+0.6/-0.2	
Length from hole center to component center	P2	6.35+/-1.3	Deviation of progress direction
Length from hole center to lead	P1	3.85+/-0.7	
Deviation along tape, left or right defect	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/-0.5	Deviation of tape width direction
Lead distance between reference and bottom plane	H0	16.0+/-0.5	
Protrusion length	ℓ	0.5 max.	
Diameter of sprocket hole	ΦD0	4.0+/-0.1	
Lead diameter	Φd	0.5+/-0.05	
Total tape thickness	t1	0.6+/-0.3	They include hold down tape thickness
Total thickness of tape and lead wire	t2	1.5 max.	
Deviation across tape	Δh1	2.0 max. (Dimension code : W)	
	Δh2	1.0 max. (except as above)	
Portion to cut in case of defect	L	11.0+0/-1.0	
Hold down tape width	W0	9.5 min.	
Hold down tape position	W2	1.5+/-1.5	
Coating extension on lead	e	Up to the end of crimp	

7-2. Splicing way of tape

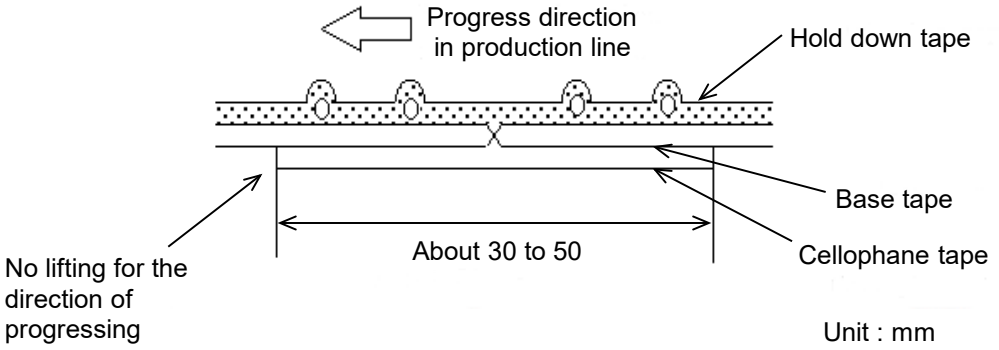
1) Adhesive force of tape is over 3N at test condition as below.



2) Splicing of tape

a) When base tape is spliced

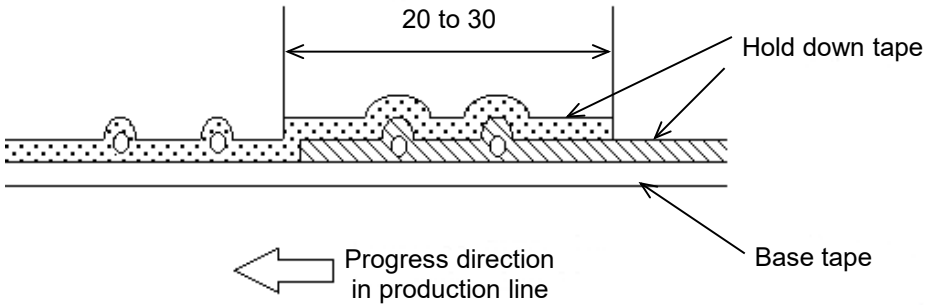
•Base tape shall be spliced by cellophane tape.
(Total tape thickness shall be less than 1.05mm.)



Unit : mm

b) When hold down tape is spliced

•Hold down tape shall be spliced with overlapping.
(Total tape thickness shall be less than 1.05mm.)



Unit : mm

c) When both tape are spliced

•Base tape and hold down tape shall be spliced with splicing tape.

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