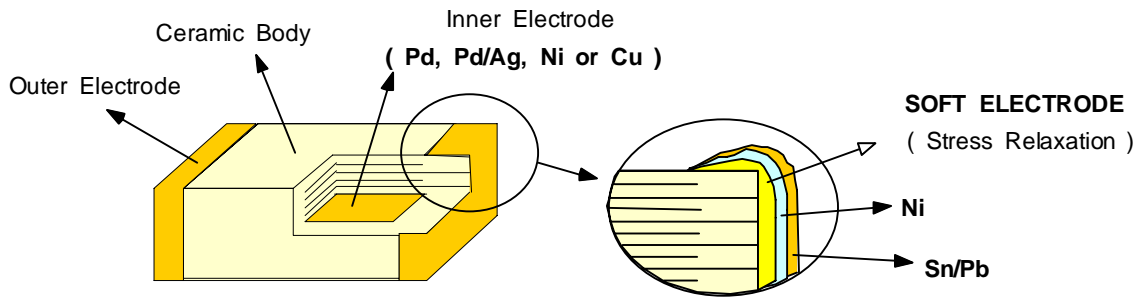


FEATURE



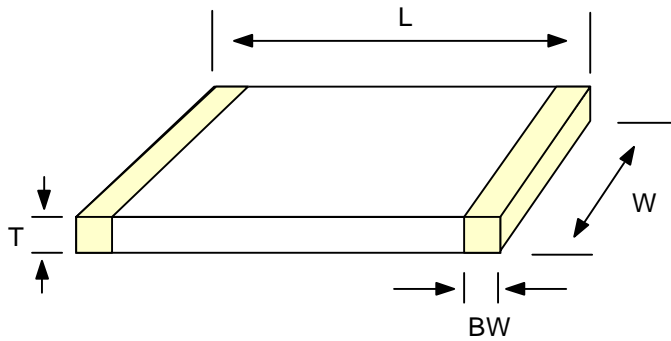
- Miniature Size
- X8R Temperature Characteristics(X7R Compatible)
- Highly Reliable Performance
- Industry Standard Size
- Tape & Reel for Surface Mount Assembly

PART NUMBER CODE

<u>CL</u>	<u>10</u>	<u>C</u>	<u>101</u>	<u>J</u>	<u>B</u>	<u>P</u>	<u>C</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

- (1) SAMSUNG Multilayer Ceramic Chip Capacitor
- (2) Type(Size)
- (3) Capacitance Temperature Characteristics
- (4) Nominal Capacitance
- (5) Capacitance Tolerance
- (6) Rated Voltage
- (7) code " P " : Automotive Products**
- (8) Packaging Type

CONFIGURATION AND DIMENSIONS



CODE	EIA CODE	DIMENSION (mm)			
		L	W	T (MAX)	BW
10	0603	1.6 +/- 0.1	0.8 +/- 0.1	0.8 +/- 0.1	0.3 +/- 0.2
21	0805	2.0 +/- 0.1	1.25 +/- 0.1	1.25 +/- 0.1	0.5+0.2/-0.3
31	1206	3.2 +/- 0.2	1.6 +/- 0.2	1.6 +/- 0.2	0.5+0.2/-0.3
32	1210	3.2 +/- 0.3	2.5 +/- 0.2	2.5 +/- 0.2	0.6 +/- 0.3

CAPACITANCE TEMPERATURE CHARACTERISTIC

@ CLASS I (Temperature Compensation)

Symbol	EIA Code	Temperature Coefficient (PPM/C)	*Temperature Characteristics	Operation Temperature Range	
CLASS I	C	C0G(CH)	0 +/- 60	C Δ	-55 ~ +150C
	P	P2H	-150 +/- 60	P Δ	
	R	R2H	-220 +/- 60	R Δ	
	S	S2H	-330 +/- 60	S Δ	
	T	T2H	-470 +/- 60	T Δ	
	U	U2J	-750 +/- 120	U Δ	
	L	S2L	+350 ~ -1000	SL	
CLASS II	B	X7R	+/-15%	-	-55 ~ +125C
	D	X8R	+/-15%	-	-55 ~ +150C

* Temperature Characteristics

Temperature Characteristics	below 2.0pF	2.2 ~ 3.9pF	above 4.0pF	above 10pF
C Δ	CK	CJ	CH	CG/CH
P Δ	PK	PJ	PH	PH
R Δ	RK	RJ	RH	RH
S Δ	SK	SJ	SH	SH
T Δ	TK	TJ	TH	TH
U Δ	UK	UJ	UJ	UJ

K : +/-250 PPM/C J : +/-120 PPM/C H : +/-60 PPM/C G : +/-30 PPM/C

NOMINAL CAPACITANCE

The value of nominal capacitance is expressed in pico-Farad(pF) with a three-digit number.

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

For values below 1pF, the letter "R" is used as the decimal point and the last digit becomes significant.

example 100 = $10 \times 10^0 = 10\text{pF}$ 222 = $22 \times 10^2 = 2200\text{pF}$
 020 = $2 \times 10^0 = 2\text{pF}$ 1R5 = 1.5pF

CAPACITANCE TOLERANCE

Temperature Characteristics	Symbol	Tolerance	Applicable Capacitance & Range
COG(NPO) or T.C Series	B	+/- 0.1pF	Less than 10pF
	C	+/- 0.25pF	
	D	+/- 0.5pF	
	F	+/- 1.0pF	
	*G	+/- 2%	E-24 Series for over 10pF
	J	+/- 5%	
	K	+/- 10%	
B(X7R) D(X8R)	J	+/- 5%	E-12 Series
	K	+/- 10%	
	M	+/- 20%	

Please Consult us for special tolerances. * : Option

RATED VOLTAGE

Symble	Rated Voltage(Vdc)
Q	6.3V
P	10V
O	16V
A	25V
B	50V
C	100V

PACKAGING TYPE

Symbol	Packaging	Symbol	Packaging
B	Bulk	D	Cardboard Tape, 13" Reel
P	Cassette	L	Cardboard Tape, 13" Reel
C	Cardboard Tape, 7" Reel	E	Embossed Tape, 7" Reel
O	Cardboard Tape, 10" Reel	F	Embossed Tape, 13" Reel

STANDARD CAPACITANCE STEP

Series	Capacitance Step											
E- 3	1.0				2.2				4.7			
E- 6	1.0	1.5			2.2	3.3		4.7		6.8		
E-12	1.0	1.2	1.5	1.8	2.2	2.7	3.3	3.9	4.7	5.6	6.8	8.2
E-24	1.0	1.2	1.5	1.8	2.2	2.7	3.3	3.9	4.7	5.6	6.8	8.2
	1.1	1.3	1.6	2.0	2.4	3.0	3.6	4.3	5.1	6.2	7.5	9.1

Standard Capacitance is " Each step x 10ⁿ "



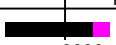

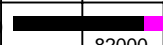

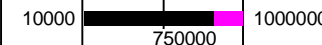
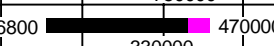

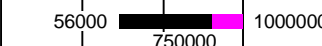
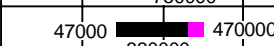
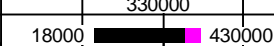
Multilayer Chip Capacitors – Automotive

CAPACITANCE RANGE CLASS I, COG & TC Series

Temperature Characteristics	Size	Chip t	Voltage	Capacitance Range (pF)											
				0.5	10	100	1000	10000	100000	1000000	10000000	100000000			
C(COG) & TC Series	10 (0603)	0.8 MAX	25V	████████████████████			1000								
			50V	████████████████████			1000								
			100V	██████████████		300									
	21 (0805)	1.25 MAX	25V	██████████████████				3300							
			50V	██████████████			2200								
			100V	██████████████		1200									
	31 (1206)	1.6 MAX	25V	██████████████████						10000					
			50V	██████████████					6800						
			100V	██████████████				5100							
	32 (1210)	2.5 MAX	25V	██████████████████							56000				
			50V	██████████████						47000					
			100V	██████████████					18000						

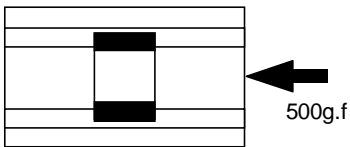
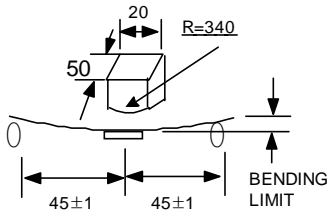
CLASS II , D(X8R) / B(X7R)

 : X7R

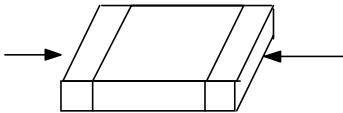
Temperature Characteristics	Size	Chip t	Voltage	Capacitance Range (pF)									
				10	100	1000	10000	100000	1000000	10000000	100000000		
X8R & X7R	10 (0603)	0.8 MAX	25V			1000		47000					
			50V			1000		27000					
			100V		300		4700						
	21 (0805)	1.25 MAX	25V			3300		330000					
			50V			2200		100000					
			100V			1200		33000					
	31 (1206)	1.6 MAX	25V			10000		1000000					
			50V			6800		470000					
			100V			5100		150000					
	32 (1210)	2.5 MAX	25V			56000		1000000					
			50V			47000		470000					
			100V			18000		430000					

* Please consult us below 25V

RELIABILITY AND TEST CONDITIONS

NO	ITEM		PERFORMANCE	TEST CONDITION												
1	APPEARANCE		NO ABNORMAL EXTERIOR APPEARANCE	THROUGH MICROSCOPE (x10)												
2	INSULATION RESISTANCE		10,000Mohm OR 500Mohm uF PRODUCT WHICHEVER IS SMALLER (RATED VOLTAGE IS BELOW 16V : 10,000Mohm OR 100Mohm uF)	RATED VOLTAGE SHALL BE APPLIED. MEASUREMENT TIME IS 60 ~ 120 RATED VOLTAGE TIME 60 SEC.												
3	WITHSTANDING VOLTAGE		NO DIELECTRIC BREAKDOWN OR MECHANICAL BREAKDOWN	CLASS I: 300% OF THE RATED VOLTAGE FOR 1~5 SEC, CLASS II:250% OF THE RATED VOLTAGE FOR 1~5 SEC IS APPLIED WITH LESS THAN 50mA CURRENT												
4	CAPACITANCE	CLASS I	WITHIN THE SPECIFIED TOLERANCE	CAPACITANCE	FREQUENCY	VOLTAGE										
				1,000pF AND BELOW	1MHz+/-10%	0.5 ~ 5 Vrms										
		MORE THAN 1,000pF		1KHz+/-10%												
		CLASS II		CAPACITANCE	FREQUENCY	VOLTAGE										
22uF AND BELOW	1MHz+/-10%	1.0+/-0.2Vrms														
MORE THAN 10uF	120Hz+/-20%	0.5+/-0.1Vrms														
5	Q	CLASS I	OVER 30pF : Q >=1,000 LESS THAN 30pF: Q >=400 +20C (C : CAPACITANCE)	CAPACITANCE	FREQUENCY	VOLTAGE										
				1,000pF AND BELOW	1MHz+/-10%	0.5 ~ 5 Vrms										
				MORE THAN 1,000pF	1KHz+/-10%											
6	Tan delta	CLASS II	<table border="1"> <tr> <td>CHAR</td> <td>25V AND OVER</td> <td>16V</td> <td>10V</td> <td>6.3V</td> </tr> <tr> <td>B/D</td> <td>0.025 MAX</td> <td>0.035 MAX</td> <td>0.035 MAX</td> <td>0.05 MAX</td> </tr> </table>	CHAR	25V AND OVER	16V	10V	6.3V	B/D	0.025 MAX	0.035 MAX	0.035 MAX	0.05 MAX	CAPACITANCE	FREQUENCY	VOLTAGE
				CHAR	25V AND OVER	16V	10V	6.3V								
				B/D	0.025 MAX	0.035 MAX	0.035 MAX	0.05 MAX								
				22uF AND BELOW	1KHZ+/-10%	1.0+/-0.2Vrms										
MORE THAN 10uF	120Hz+/-20%	0.5+/-0.1Vrms														
7	ADHESIVE STRENGTH OF TERMINATION		NO INDICATION OF PEELING SHALL OCCUR ON THE TERMINAL ELECTRODE.	A 500g.f PRESSURE SHALL BE APPLIED FOR 10+/-1 SECOND. 												
8	BENDING STRENGTH	APPEARANCE	NO MECHANICAL DAMAGE SHALL OCCUR.	BENDING SHALL BE APPLIED TO THE LIMIT (3mm) WITH 0.3mm/SEC.												
		CAPACITANCE	CHARACTER	CHANGE OF CAPACITANCE												
			CLASS I	WITHIN +/-5% OR +/- 0.5 pF WHICHEVER IS LARGER												
CLASS II	WITHIN +/-12.5%															

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NO	ITEM	PERFORMANCE	TEST CONDITION																																
9	SOLDERABILITY	<p>MORE THAN 95% OF THE TERMINAL SURFACE IS TO BE SOLDERED NEWLY, SO METAL PART(A) DOES NOT COME OUT OR DISSOLVE</p> 	<p>SOLDER TEMPERATURE : 230+/-5C SOLDER : H63A FLUX : ROSIN</p> <p>PRE-HEATING : AT 80-120C FOR 10-30SEC.</p>																																
10	RESISTANCE TO SOLDERING HEAT	<table border="1"> <tr> <td>APPEARANCE</td> <td colspan="2">NO MECHANICAL DAMAGE SHALL OCCUR</td> </tr> <tr> <td rowspan="2">CAPACITANCE</td> <td>CHARACTERISTIC</td> <td>CAP. CHANGE</td> </tr> <tr> <td>CLASS I</td> <td>WITHIN +/-2.5% OR +/-0.25pF WHICHEVER IS LARGER</td> </tr> <tr> <td></td> <td>CLASS II</td> <td>WITHIN +/-7.5%</td> </tr> <tr> <td>Q CLASS I</td> <td colspan="2">30pF AND OVER : Q>= 1000 LESS THAN 30pF : Q>= 400+20xC</td> </tr> <tr> <td>Tan delta CLASS II</td> <td colspan="2">TO SATISFY THE SPECIFIED INITIAL VALUE</td> </tr> <tr> <td>INSULATION RESISTANCE</td> <td colspan="2">TO SATISFY THE SPECIFIED INITIAL VALUE</td> </tr> <tr> <td>WITHSTANDING VOLTAGE</td> <td colspan="2">TO SATISFY THE SPECIFIED INITIAL VALUE</td> </tr> </table>	APPEARANCE	NO MECHANICAL DAMAGE SHALL OCCUR		CAPACITANCE	CHARACTERISTIC	CAP. CHANGE	CLASS I	WITHIN +/-2.5% OR +/-0.25pF WHICHEVER IS LARGER		CLASS II	WITHIN +/-7.5%	Q CLASS I	30pF AND OVER : Q>= 1000 LESS THAN 30pF : Q>= 400+20xC		Tan delta CLASS II	TO SATISFY THE SPECIFIED INITIAL VALUE		INSULATION RESISTANCE	TO SATISFY THE SPECIFIED INITIAL VALUE		WITHSTANDING VOLTAGE	TO SATISFY THE SPECIFIED INITIAL VALUE		<p>DIP : SOLDER TEMPERATURE OF 270+/-5C DIP TIME :10+/-1 SEC. EACH TERMINATION SHALL BE FULLY IMMersed AND PREHEATED AS FOLLOWING:</p> <table border="1"> <thead> <tr> <th>STEP</th> <th>TEMP.(C)</th> <th>TIME (SEC.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>80-100</td> <td>60</td> </tr> <tr> <td>2</td> <td>150-180</td> <td>60</td> </tr> </tbody> </table> <p>MEASURE AT ROOM TEMP. AFTER COOLING FOR CLASS I : 24 +/- 2 HOURS CLASS II : 48 +/- 4 HOURS</p>	STEP	TEMP.(C)	TIME (SEC.)	1	80-100	60	2	150-180	60
APPEARANCE	NO MECHANICAL DAMAGE SHALL OCCUR																																		
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2	150-180	60																																	
11	VIBRATION TEST	<table border="1"> <tr> <td>APPEARANCE</td> <td colspan="2">NO MECHANICAL DAMAGE SHALL OCCUR.</td> </tr> <tr> <td rowspan="2">CAPACITANCE</td> <td>CHARACTERISTIC</td> <td>CAP. CHANGE</td> </tr> <tr> <td>CLASS I</td> <td>WITHIN +/-2.5% OR +/-0.25pF WHICHEVER IS LARGER</td> </tr> <tr> <td></td> <td>CLASS II</td> <td>WITHIN +/-5%</td> </tr> <tr> <td>Q CLASS I</td> <td colspan="2">30pF AND OVER : Q>= 1000 LESS THAN 30pF : Q>= 400+20xC</td> </tr> <tr> <td>Tan delta CLASS II</td> <td colspan="2">TO SATISFY THE SPECIFIED INITIAL VALUE</td> </tr> <tr> <td>INSULATION RESISTANCE</td> <td colspan="2">TO SATISFY THE SPECIFIED INITIAL VALUE</td> </tr> </table>	APPEARANCE	NO MECHANICAL DAMAGE SHALL OCCUR.		CAPACITANCE	CHARACTERISTIC	CAP. CHANGE	CLASS I	WITHIN +/-2.5% OR +/-0.25pF WHICHEVER IS LARGER		CLASS II	WITHIN +/-5%	Q CLASS I	30pF AND OVER : Q>= 1000 LESS THAN 30pF : Q>= 400+20xC		Tan delta CLASS II	TO SATISFY THE SPECIFIED INITIAL VALUE		INSULATION RESISTANCE	TO SATISFY THE SPECIFIED INITIAL VALUE		<p>THE CAPACITOR SHALL BE SUBJECTED TO A HARMONIC MOTION HAVING A TOTAL AMPLITUDE OF 1.5mm.</p> <p>THE ENTIRE FREQUENCY RANGE, FROM 10 TO 2000Hz AND RETURN TO 10Hz, SHALL BE TRAVERSED IN 20 MINUTES.</p> <p>THIS CYCLE SHALL BE PERFORMED 2 HOURS IN EACH THERE MUTUALLY PERPENDICULAR DIRECTION, FOR TOTAL PERIOD OF 6 HOURS.</p>												
APPEARANCE	NO MECHANICAL DAMAGE SHALL OCCUR.																																		
CAPACITANCE	CHARACTERISTIC	CAP. CHANGE																																	
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INSULATION RESISTANCE	TO SATISFY THE SPECIFIED INITIAL VALUE																																		

NO	ITEM	PERFORMANCE	TEST CONDITION									
12	APPEARANCE	NO MECHANICAL DAMAGE SHALL OCCUR	TEMPERATURE : 85+/-2 C RELATIVE HUMIDITY:90-95 %RH TEST TIME : 500 +12/-0 Hr. MEASURE AT ROOM TEMPERATURE AFTER COOLING FOR CLASS I : 24+/-2 Hr. CLASS II : 48+/-4 Hr.									
	CAPACITANCE	CHARACTERISTIC		CAP. CHANGE								
		CLASS I		WITHIN +/-5% OR +/-0.5pF WHICHEVER IS LARGER								
		CLASS II		WITHIN +/-12.5%								
	Q CLASS I	30pF AND OVER : Q>= 350 10 ~30pF : Q>= 275 + 2.5xC LESS THAN 10pF : Q>= 200 + 10xC										
Tan delta CLASS II	<table border="1"> <thead> <tr> <th>CHAR</th> <th>25V AND OVER</th> <th>16V</th> <th>10V</th> <th>6.3V</th> </tr> </thead> <tbody> <tr> <td>B/D</td> <td>0.025 MAX</td> <td>0.035 MAX</td> <td>0.035 MAX</td> <td>0.05 MAX</td> </tr> </tbody> </table>		CHAR	25V AND OVER	16V	10V	6.3V	B/D	0.025 MAX	0.035 MAX	0.035 MAX	0.05 MAX
CHAR	25V AND OVER	16V	10V	6.3V								
B/D	0.025 MAX	0.035 MAX	0.035 MAX	0.05 MAX								
INSULATION RESISTANCE	MINIMUM INSULATION RESISTANCE: 1,000 Mohm OR 50Mohm uF PRODUCT WHICHEVER IS SMALLER											
13	APPEARANCE	NO MECHANICAL DAMAGE SHALL OCCUR	APPLIED VOLTAGE : RATED VOLTAGE TEMPERATURE : 40+/-2 C RELATIVE HUMIDITY : 90-95%RH TEST TIME : 500 +12/-0 Hr. CURRENT APPLIED : 50mA MAX. MEASURING AT ROOM TEMPERATURE AFTER COOLING FOR CLASS I : 24+/-2 Hr. CLASS II : 48+/-4 Hr.									
	CAPACITANCE	CHARACTERISTIC		CAPACITANCE CHANGE								
		CLASS I		WITHIN +/-7.5% OR +/-0.75pF WHICHEVER IS LARGER								
		CLASS II		WITHIN +/-12.5%								
	Q CLASS I	30pF AND OVER : Q>= 200 30pF AND BELOW : Q>= 100 + 10/3xC										
Tan delta CLASS II	<table border="1"> <thead> <tr> <th>CHAR</th> <th>25V AND OVER</th> <th>16V</th> <th>10V</th> <th>6.3V</th> </tr> </thead> <tbody> <tr> <td>B/D</td> <td>0.05 MAX</td> <td>0.05 MAX</td> <td>0.05 MAX</td> <td>0.075 MAX</td> </tr> </tbody> </table>		CHAR	25V AND OVER	16V	10V	6.3V	B/D	0.05 MAX	0.05 MAX	0.05 MAX	0.075 MAX
CHAR	25V AND OVER	16V	10V	6.3V								
B/D	0.05 MAX	0.05 MAX	0.05 MAX	0.075 MAX								
INSULATION RESISTANCE	MINIMUM INSULATION RESISTANCE: 500 Mohm OR 25Mohm uF PRODUCT, WHICHEVER IS SMALLER.											

* THE INITIAL VALUE OF HIGH DIELECTRIC CONSTANT SERIES SHALL BE MEASURED AFTER THE HEAT TREATMENT OF 150 +/-10C, 1Hr AND SITTING OF 48+/-4hr AT ROOM TEMPERATURE & ROOM HUMIDITY.

NO	ITEM	PERFORMANCE	TEST CONDITION											
14	HIGH TEMPERATURE RESISTANCE	APPEARANCE	NO MECHANICAL DAMAGE SHALL OCCUR											
		CAPACITANCE	CHARACTERISTIC	CAP. CHANGE										
			CLASS I	WITHIN +/-3% OR +/-0.3pF, WHICHEVER IS LARGER										
		CLASS II	WITHIN +/-12.5%											
		Q CLASS I	30pF AND OVER : Q >= 350 10 ~ 30 pF : Q >= 275 + 2.5xC LESS THAN 10pF : Q >=200 + 10xC											
		Tan delta CLASS II	<table border="1"> <tr> <td>CHAR</td> <td>25V AND OVER</td> <td>16V</td> <td>10V</td> <td>6.3V</td> </tr> <tr> <td>B/D</td> <td>0.05 MAX</td> <td>0.05 MAX</td> <td>0.05 MAX</td> <td>0.075 MAX</td> </tr> </table>		CHAR	25V AND OVER	16V	10V	6.3V	B/D	0.05 MAX	0.05 MAX	0.05 MAX	0.075 MAX
CHAR	25V AND OVER		16V	10V	6.3V									
B/D	0.05 MAX	0.05 MAX	0.05 MAX	0.075 MAX										
INSULATION RESISTANCE	MINIMUM INSULATION RESISTANCE: 1,000 Mohm OR 50Mohm uF PRODUCT WHICHEVER IS SMALLER													
15	TEMPERATURE CYCLE	APPEARANCE	NO MECHANICAL DAMAGE SHALL OCCUR											
		CAPACITANCE	CHARACTERISTIC	CAP. CHANGE										
			CLASS I	WITHIN +/-2.5% OR +/-0.25pF WHICHEVER IS LARGER										
		CLASS II	WITHIN +/-7.5%											
		Q CLASS I	30 pF AND OVER : Q >= 1000 LESS THAN 30pF:Q >=400 +20xC											
		Tan delta CLASS II	TO SATISFY THE SPECIFIED INITIAL VALUE											
		INSULATION RESISTANCE	TO SATISFY THE SPECIFIED INITIAL VALUE											
WITHSTANDING VOLTAGE	TO SATISFY THE SPECIFIED INITIAL VALUE													
			<p>APPLIED VOLTAGE : 200% OF RATED VOLTAGE TEST TIME : 1000 +48/0 Hr. CURRENT APPLIED : 50mA MAX.</p> <table border="1"> <tr> <td>CHAR.</td> <td>TEMP.</td> </tr> <tr> <td>CLASS I</td> <td>150 +/-3 C</td> </tr> <tr> <td rowspan="2">CLASS II</td> <td>B</td> <td>125 +/-3 C</td> </tr> <tr> <td>D</td> <td>150 +/-3 C</td> </tr> </table> <p>(INITIAL VALUE MEASUREMENT) THE INITIAL VALUE OF CLASS II SHALL BE MEASURED AFTER THE HEAT TREATMENT OF 150+0/-10°C, 1HR AND SITTING OF 48+/-4HRS AT ROOM TEMPERATURE AND ROOM HUMIDITY.</p>	CHAR.	TEMP.	CLASS I	150 +/-3 C	CLASS II	B	125 +/-3 C	D	150 +/-3 C		
CHAR.	TEMP.													
CLASS I	150 +/-3 C													
CLASS II	B	125 +/-3 C												
	D	150 +/-3 C												
			<p>CAPACITORS SHALL BE SUBJECTED TO 1000 CYCLES OF THE TEMPERATURE CYCLE AS FOLLOWING</p> <table border="1"> <thead> <tr> <th>STEP</th> <th>TEMP.(C)</th> <th>TIME (MIN)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>MIN. RATED TEMP. +0/-3</td> <td rowspan="2">30</td> </tr> <tr> <td>25</td> </tr> <tr> <td rowspan="2">3</td> <td>MAX. RATED TEMP. +3/-0</td> <td rowspan="2">30</td> </tr> <tr> <td>25</td> </tr> </tbody> </table> <p>MEASURE AT ROOM TEMPERATURE AFTER COOLING FOR CLASS I : 24+/-2 Hr. CLASS II : 48+/-4 Hr.</p>	STEP	TEMP.(C)	TIME (MIN)	1	MIN. RATED TEMP. +0/-3	30	25	3	MAX. RATED TEMP. +3/-0	30	25
STEP	TEMP.(C)	TIME (MIN)												
1	MIN. RATED TEMP. +0/-3	30												
	25													
3	MAX. RATED TEMP. +3/-0	30												
	25													

Multilayer Chip Capacitors – Automotive

NO	ITEM	PERFORMANCE	TEST CONDITION	
16	Recommend Method of Soldering			
	SOLDERING GROUP BY SIZE&CAP	SIZE(mm)	CONDITION	
			FLOW	REFLOW
		1608 (0603)		
		2012 (0805)		
		3216 (1206)		
	3225 (1210)	-		

※ When Solderability Is Considered, Capacitors Are Recommended To Be Used In 12 Months.
