



SPECIFICATION (Reference sheet)

- Supplier : Samsung electro-mechanics
- Product : Multi-layer Ceramic Capacitor
- Samsung P/N : CL03C110GA3GNNH
- Description :
- CAP, 11pF, 25V, ±2%, C0G, 0201

A. Samsung Part Number

			<u>CL</u>	<u>03</u>	<u>C</u>	<u>110</u>	<u>G</u>	<u>A</u>	<u>3</u>	<u>G</u>	<u>N</u>	<u>N</u>	<u>H</u>	
			1	2	3	4	(5)	6	1	(8)	9	10	1	
1	Series	Samsung Multi-layer Ceramic Capacitor												
2	Size	0201	(inch co	ode)		L:	0.6	± 0.0)3	mm		W:	0.3 ± 0.03	3 mm
3	Dielectric	COG				8	Inner electrode					Cu		
4	Capacitance	11 pF				Termination					Cu			
5	Capacitance	±2	2 %					Plat	ing				Sn 100%	(Pb Free)
	tolerance						9	Pro	duct				Normal	
6	Rated Voltage	25	δV				10	Spe	cial				Reserved for	r future use
7	Thickness	0.3	3 ± 0.03	mm			1	Pac	kagiı	ng			Cardboard T	ype, 7" reel

B. Samsung Reliability Test and Judgement condition

	Performance	Test condition						
Capacitance	Within specified tolerance	1₩±10% 0.5~5Vrms						
Q	620 min							
Insulation	10,000Mohm or 500Mohm . <i>μ</i> F	Rated Voltage 60~120 sec.						
Resistance	Whichever is Smaller							
Appearance	No abnormal exterior appearance	Microscope (×10)						
Withstanding	No dielectric breakdown or	300% of the rated voltage						
Voltage	mechanical breakdown							
Temperature	COG							
Characteristics	(From -55℃ to 125℃, Capacitance change should be within ±30PPM/℃)							
Adhesive Strength	No peeling shall be occur on the	200g·F, for 10±1 sec.						
of Termination	terminal electrode							
Bending Strength	Capacitance change :	Bending to the limit (1mm)						
	within $\pm 5\%$ or ± 0.5 pF whichever is larger	with 1.0mm/sec.						
Solderability	More than 75% of terminal surface	SnAg3.0Cu0.5 solder						
	is to be soldered newly	245±5℃, 3±0.3sec.						
		(preheating : 80~120 ℃ for 10~30sec.)						
Resistance to	Capacitance change :	Solder pot : 270±5°C, 10±1sec.						
Soldering heat	within ±2.5% or ±0.25pF whichever is larger							
	Tan δ, IR : initial spec.							

	Performance	Test condition						
Vibration Test	Capacitance change :	Amplitude : 1.5mm						
	within $\pm 2.5\%$ or ± 0.25 pF whichever is larger	From 10Hz to 55Hz (return : 1min.)						
	Tan δ, IR : initial spec.	2hours \times 3 direction (x, y, z)						
Moisture	Capacitance change :	With rated voltage						
Resistance	within $\pm 7.5\%$ or ± 0.75 pF whichever is larger	er <mark>40±2℃, 90~95%RH, 500+12/-0hrs</mark>						
	Q : 136.67 min							
	IR : 500Mohm or 25Mohm · µF							
	Whichever is Smaller							
High Temperature	Capacitance change :	With 200% of the rated voltage						
Resistance	within ±3% or ±0.3pF whichever is larger	Max. operating temperature						
	Q : 302.5 min	1000+48/-0hrs						
	IR : 1000Mohm or 50Mohm · μF							
	Whichever is Smaller							
Temperature	Capacitance change :	1 cycle condition						
Cycling	within $\pm 2.5\%$ or ± 0.25 pF whichever is larger	Min. operating temperature \rightarrow 25 °C						
	Tan δ, IR : initial spec.	ightarrow Max. operating temperature $ ightarrow$ 25 °C						
		5 cycle test						

C. Recommended Soldering method :

Reflow (Reflow Peak Temperature : 260+0/-5 $^\circ\!\!\!\mathrm{C}$, 10sec. Max)

Product specifications included in the specifications are effective as of March 1, 2013. Please be advised that they are standard product specifications for reference only. We may change, modify or discontinue the product specifications without notice at any time. So, you need to approve the product specifications before placing an order. Should you have any question regarding the product specifications, please contact our sales personnel or application engineers.

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