

SPECIFICATION

(Reference sheet)

- Supplier : Samsung electro-mechanics
- Product : Multi-layer Ceramic Capacitor

- Samsung P/N : **CL21C560JBANNND**
- Description : **CAP, 56pF, 50V, ± 5%, COG, 0805**

A. Samsung Part Number

CL 21 C 560 J B A N N N D
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

① Series	Samsung Multi-layer Ceramic Capacitor			
② Size	0805 (inch code)	L: 2.00 ± 0.10 mm	W: 1.25 ± 0.10 mm	
③ Dielectric	COG	⑧ Inner electrode	Ni	
④ Capacitance	56 pF	Termination	Cu	
⑤ Capacitance tolerance	± 5%	Plating	Sn 100% (Pb Free)	
⑥ Rated Voltage	50 V	⑨ Product	Normal	
⑦ Thickness	0.65 ± 0.10 mm	⑩ Special	Reserved for future use	
		⑪ Packaging	Cardboard Type, 13" reel	

B. Structure and dimension



Samsung P/N (Lead Free)	Dimension(mm)			
	L	W	T	BW
CL21C560JBANNND	2.00 ± 0.10	1.25 ± 0.10	0.65 ± 0.10	0.50+0.20/-0.30

C. Samsung Reliability Test and Judgement condition

	Performance	Test condition
Capacitance	Within specified tolerance	1MHz±10% / 0.5~5Vrms
Q	1,000 min	
Insulation Resistance	10,000Mohm or 500Mohm× μ F Whichever is smaller	Rated Voltage 60~120 sec.
Appearance	No abnormal exterior appearance	Microscop (X10)
Withstanding Voltage	No dielectric breakdown or mechanical breakdown	300% of the rated voltage
Temperature Characteristics	COG (From -55℃ to 125℃, Capacitance change should be within ±30PPM/℃)	
Adhesive Strength of Termination	No peeling shall be occur on the terminal electrode	500g×F, for 10±1 sec.
Bending Strength	Capacitance change : within ±5% or ±0.5pF whichever is larger	Bending to the limit (1mm) with 1.0mm/sec.
Solderability	More than 75% of terminal surface is to be soldered newly	SnAg3.0Cu0.5 solder 245±5℃, 3±0.3sec. (preheating : 80~120℃ for 10~30sec.)
Resistance to Soldering heat	Capacitance change : within ±2.5% or ±0.25pF whichever is larger Tan δ , IR : initial spec.	Solder pot : 270±5℃, 10±1sec.
Vibration Test	Capacitance change : within ±2.5% or ±0.25pF whichever is larger Tan δ , IR : initial spec.	Amplitude : 1.5mm From 10Hz to 55Hz (return : 1min.) 2hours ´ 3 direction (x, y, z)
Moisture Resistance	Capacitance change : within ±7.5% or ±0.75pF whichever is larger Q : 200 min IR : 500Mohm or 25Mohm × μ F Whichever is smaller	With rated voltage 40±2℃, 90~95%RH, 500+12/-0hrs
High Temperature Resistance	Capacitance change : within ±3% or ±0.3pF whichever is larger Q : 350 min IR : 1,000Mohm or 50Mohm × μ F Whichever is smaller	With 200% of the rated voltage Max. operating temperature 1000+48/-0hrs
Temperature Cycling	Capacitance change : within ±2.5% or ±0.25pF whichever is larger Tan δ , IR : initial spec.	1 cycle condition Min. operating temperature → 25℃ → Max. operating temperature → 25℃ 5 cycle test

※ The reliability test condition can be replaced by the corresponding accelerated test condition.

D. Recommended Soldering method :

Reflow (Reflow Peak Temperature : 260+0/-5℃, 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.

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