



SPECIFICATION

• Supplier : Samsung electro-mechanics • Samsung P/N : CL21C271JCANNNC

• Product : Multi-layer Ceramic Capacitor • Description : CAP, 270pF, 100V, ±5%, C0G, 0805

A. Samsung Part Number

<u>CL</u> <u>21</u> <u>C</u> <u>271</u> <u>J</u> <u>C</u> <u>A</u> <u>N</u> <u>N</u> <u>N</u> <u>O</u> <u>C</u> (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11)

1	Series	Samsung Multi-layer Ceramic Capacitor							
2	Size	0805 (inch co	ode) L:	2.0	± 0.1	mm	W:	1.25 ± 0.1	mm
				_					
(3)	Dielectric	C0G		8	Inner el	ectrode		Ni	
4	Capacitance	270 pF			Termina	ation		Cu	
(5)	Capacitance	±5 %			Plating			Sn 100%	(Pb Free)
	tolerance			9	Product	t		Normal	
6	Rated Voltage	100 V		10	Special			Reserved for	future use
7	Thickness	0.65 ± 0.1	mm	11)	Packag	ing		Cardboard Ty	ype, 7" reel

B. Samsung Reliablility Test and Judgement condition

	Performance	Test condition					
Capacitance	Within specified tolerance	1Mb±10% 0.5~5Vrms					
Q	1000 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	200% of the rated voltage					
Voltage	mechanical breakdown						
Temperature	COG						
Characterisitcs	(From -55 ℃ to 125 ℃, Capacitance change shoud be within ±30PPM/℃)						
Adhesive Strength	No peeling shall be occur on the	500g·F, for 10±1 sec.					
of Termination	terminal electrode						
Bending Strength	Capacitance change :	Bending to the limit (1mm)					
	within ±5% or ±0.5pF 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°C for 10~30sec.)					
Resistance to Capacitance change :		Solder pot : 270±5℃, 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 ±2.5% or ±0.25pF whichever is larger	From 10Hz to 55Hz (return : 1min.)				
	Tan δ, IR : initial spec.	2hours × 3 direction (x, y, z)				
Moisture	Capacitance change :	With rated voltage				
Resistance	within ±7.5% or ±0.75pF whichever is larger	40±2℃, 90~95%RH, 500+12/-0hrs				
	Q: 200 min					
	IR: 500Mohm or 25Mohm $\cdot \mu$ F					
	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: 350 min	1000+48/-0hrs				
	IR : 1000Mohm or 50Mohm $\cdot \mu$ F					
	Whichever is Smaller					
Temperature Capacitance change :		1 cycle condition				
Cycling	within ±2.5% or ±0.25pF whichever is larger	Min. operating temperatur → 25°C				
	Tan δ, IR : initial spec.	→ Max. operating temperature → 25°C				
		5 cycle test				

C. Recommended Soldering method :

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

^{*} For the more detail Specification, Please refer to the Samsung MLCC catalogue.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Multilayer Ceramic Capacitors MLCC - SMD/SMT category:

Click to view products by Samsung manufacturer:

Other Similar products are found below:

M39014/01-1467 M39014/02-1218V M39014/02-1225V M39014/02-1262V M39014/02-1301 M39014/22-0631 1210J5000102JCT

1210J2K00102KXT 1210J5000103KXT 1210J5000223KXT D55342E07B379BR-TR D55342E07B523DR-T/R 1812J1K00103KXT

1812J1K00473KXT 1812J2K00680JCT 1812J4K00102MXT 1812J5000102JCT 1812J5000103JCT 1812J5000682JCT NIN-FB391JTRF

NIN-FC2R7JTRF NPIS27H102MTRF C1206C101J1GAC C1608C0G1E472JT000N C2012C0G2A472J 2220J2K00101JCT

KHC201E225M76N0T00 LRC-LRF1206LF-01R025FTR1K 1812J1K00222JCT 1812J2K00102KXT 1812J2K00222KXT

1812J2K00472KXT 2-1622820-7-CUT-TAPE 2220J3K00102KXT 2225J2500824KXT CCR07CG103KM CGA2B2C0G1H010C

CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H151J CGA2B2C0G1H1R5C

CGA2B2C0G1H2R2C CGA2B2C0G1H3R3C CGA2B2C0G1H680J CGA2B2C0G1H6R8D CGA2B2X8R1H221K CGA2B2X8R1H472K

CGA3E1X7R1C474K