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Samsung Electro-Mechanics America, Inc. CL21C430JDCNCNC

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Distributor of Samsung Electro-Mechanics America, Inc.: Excellent Integrated System Lin

Datasheet of CL21C430JDCNCNC - CAP CER 43PF 200V NP0 0805

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SPECIFICATION

• Supplier : Samsung electro-mechanics • Samsung P/N : CL21C430JDCNCNC

• Product : Multi-layer Ceramic Capacitor • Description : CAP, 43pF, 200V, ±5%, C0G, 0805

A. Samsung Part Number

<u>CL</u> <u>21</u> <u>C</u> <u>430</u> <u>J</u> <u>D</u> <u>C</u> <u>N</u> <u>C</u> <u>N</u> <u>C</u> <u>1</u> (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11)

1	Series	Samsung Multi-layer Ceramic Capacitor			
2	Size	0805 (inch code)	L: 2.0 ± 0.1 mm	W: 1.25 ± 0.1	mm
	Districts:	000		NI:	
(3)	Dielectric	C0G	8 Inner electrode	Ni	
4	Capacitance	43 pF	Termination	Cu	
⑤	Capacitance	±5 %	Plating	Sn 100%	(Pb Free)
	tolerance		Product	High-Q	
6	Rated Voltage	200 V	Special	Reserved for	future use
7	Thickness	0.85 ± 0.1 mm	① Packaging	Cardboard T	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⋅μF	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 C0G			
Characterisitcs (From -55 ℃ to 125 ℃, Capacitance change should		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 ℃ 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.		



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	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 Q: 200 min	40±2℃, 90~95%RH, 500+12/-0hrs	
	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: 350 min	1000+48/-0hrs	
	IR : 1000Mohm or 50Mohm · μF 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.	$ ightarrow$ Max. operating temperature $ ightarrow$ 25 $^{\circ}\!$	
		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.