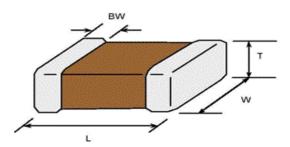


- · Supplier : JSMICR0 electro-mechanics
- Product : Multi-layer Ceramic Capacitor
- · JSMICR0 P/N : · Description :
- CL03A105MQ3CSNH CAP, 1uF, 6.3V, ±20%, X5R, 0201

A. JSMICR0 Part Number

			<u>L 03</u> D 2	<mark>≜</mark> ₃	<u>105</u> ④	<u>M</u> 5	<mark>Q</mark> 6	<u>3</u> 7	<mark>C</mark> ⑧	<mark>S</mark> 9	<u>N</u> 10	<u>н</u> Ф
1	Series	JSMICR0 Multi-layer Ceramic Capacitor										
2	Size	0201 (inc	ch code)		L: (0.60	± 0.05	mm			W:	0.30 ± 0.05 mm
3	Dielectric	X5R				8	Inner	elect	rode			Ni
4	Capacitance	1 uF					Term	inatic	n			Control code
5	Capacitance	±20 %					Platir	g				Sn 100% (Pb Free)
	tolerance					9	Prod	uct				Size control code
6	Rated Voltage	6.3 V				10	Spec	al				Reserved for future use
1	Thickness	0.30 ± 0.05 I	mm			1	Packa	aging				Cardboard Type, 7" reel

B. Structure & Dimension



JSMICR0 P/N	Dimension(mm)							
JSIMICIA	L	W	Т	BW				
CL03A105MQ3CSNH	0.60 ± 0.05	0.30 ± 0.05	0.30 ± 0.05	0.15 ± 0.05				



C. JSMICR0Reliablility Test and Judgement Condition

	Judgement	Test condition					
Capacitance	Within specified tolerance	1 ^{kHz} ±10% / 0.5±0.1Vrms					
Tan δ (DF)	0.125 max.	A capacitor prior to measuring the capacitance is heat reated at $150^{\circ}C+0/-10^{\circ}C$ for 1hour and maintained in ambient air for 24±2 hours.					
Insulation	10,000Mohm or 10Mohm× <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	250% of the rated voltage					
Voltage	mechanical breakdown						
Temperature	X5R						
Characteristics	[From-55℃ to 85℃, Capacitance change s	hould be within ±15%)					
Adhesive Strength	No peeling shall be occur on the	200g f, for 10±1 sec.					
of Termination	terminal electrode						
Bending Strength	Capacitance change : within ±12.5%	Bending to the limit (1mm)					
		with 1.0mm/sec.					
Solderability	More than 75% of terminal surface	SnAg3.0Cu0.5 solder					
	s to be soldered newly	245±5°C, 3±0.3sec.					
		(preheating : 80~120℃ for 10~30sec.)					
Resistance to	Capacitance change : within ±7.5%	Solder pot : 270±5℃, 10±1sec.					
Soldering Heat	Tan δ, IR : initial spec.						
Vibration Test	Capacitance change : within ± 5%	Amplitude : 1.5mm					
	Tan δ, IR : initial spec.	From 10Hz to 55Hz (return : 1min.)					
		2hours × 3 direction (x, y, z)					
Moisture	Capacitance change : within ±12.5%	With rated voltage					
Resistance	Tan δ: 0.25 max	40±2℃, 90~95%RH, 500+12/-0hrs					
	IR : 500Mohm or 1Mohm × μ F						
	Whichever is smaller	4500/					
High Temperature	Capacitance change : within ±12.5%	With 150% of the rated voltage					
Resistance	Tan δ : 0.25 max	Max. operating temperature					
	IR : 1,000Mohm or 2Mohm × μ F	1,000+48/-0hrs					
	Whichever is smaller						
Temperature	Capacitance change : within ±15%	1 cycle condition					
Cycling	Tan δ, IR : initial spec.	Min. operating temperature \rightarrow 25°C					
		→ Max. operating temperature → 25° C					
		δ cycle test					

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

D. Recommended Soldering method :

Reflow (Reflow Peak Temperature : 260±5°C, 30sec.)

A 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.