SAMSUNG ELECTRO-MECHANICS

RoHS+Halogen Compliant ecoparts

SPECIFICATION

- **Supplier : Samsung electro-mechanics**
- **Product : Multi-layer Ceramic Capacitor**
- **Samsung P/N : CL43C182JIJNNNF**
- **Description : CAP, 1.8㎋, 1000V, ±5%, C0G, 1812**

A. Samsung Part Number

CL	43	C	182	J	I	J	N	N	N	F
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪

①	**Series**	Samsung Multi-layer Ceramic Capacitor			
②	**Size**	1812 (inch code)	L: 4.5 ± 0.4 mm	W: 3.2 ± 0.3 mm	
③	**Dielectric**	C0G	⑧ **Inner electrode**	Ni	
④	**Capacitance**	1.8 ㎋	**Termination**	Cu	
⑤	**Capacitance tolerance**	±5 %	**Plating**	Sn 100%	(Pb Free)
			⑨ **Product**	Normal	
⑥	**Rated Voltage**	1000 V	⑩ **Special**	Reserved for future use	
⑦	**Thickness**	2.5 ± 0.2 mm	⑪ **Packaging**	Embossed Type, 13" reel	

B. Samsung Reliablility Test and Judgement condition

	Performance	Test condition
Capacitance	Within specified tolerance	1㎑±10% 0.5~5Vrms
Q	1000 min	
Insulation Resistance	10,000Mohm or 500Mohm·㎌ Whichever is Smaller	500±50 Vdc 60~120 sec.
Appearance	No abnormal exterior appearance	Microscope (×10)
Withstanding Voltage	No dielectric breakdown or mechanical breakdown	120% of the rated voltage
Temperature Characterisitcs	C0G (From -55℃ to 125℃, Capacitance change shoud 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 ±0.5㎊ 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 ±0.25㎊ whichever is larger Tan δ, IR : initial spec.	Solder pot : 270±5℃, 10±1sec.

	Performance	Test condition
Vibration Test	Capacitance change : within ±2.5% or ±0.25㎊ whichever is larger Tan δ, IR : initial spec.	Amplitude : 1.5mm From 10㎐ to 55㎐ (return : 1min.) 2hours × 3 direction (x, y, z)
High Temperature Resistance	Capacitance change : within ±3% or ±0.3㎊ whichever is larger Q : 350 min IR : 1000Mohm or 50Mohm · ㎌ Whichever is Smaller	With 100% of the rated voltage Max. operating temperature 1000+48/-0hrs
Temperature Cycling	Capacitance change : within ±2.5% or ±0.25㎊ whichever is larger Tan δ, IR : initial spec.	1 cycle condition Min. operating temperatur→ 25℃ → Max. operating temperature → 25℃ 5 cycle test

C. Recommended Soldering method :

Reflow (Reflow Peak Temperature : 260+0/-5℃, 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 - Leaded ***category:***

Click to view products by Samsung ***manufacturer:***

Other Similar products are found below :

010-007220-002REV A M39014/01-1210V M39014/01-1281V M39014/01-1335V M39014/01-1571V M39014/01-1578V M39014/01-1593 M39014/02-1265V M39014/02-1347 M39014/02-1350 M39014/02-1356VTR1 M39014/22-0167 M39014/22-0734 87043-49 Q52-DK AR215F103K4RTR2-3323 C0603C309C5GACTU-CUT-TAPE C410C221K1G5TATR C420C102J1G5TATR C430C104M1U5TATR SL155C222MAB FK26X7R2E104KN006 CCR06CG183GRV CFB1/2C101J CFB1/2C102J CN20C102K M39014/01-1317 M39014/01-1572V M39014/01-1594V M39014/02-1236 M39014/02-1321V M39014/02-1345V M39014/22-0351 M39014/22-0695 M39014/220767 M39014/220788 M39014/22-1005 MA405E334MAA MD015A103KAB SL301E105MAB CCR05CG242FRV KTD101B684M32A0B00 CCR07CG473KR CCR05CG820JP TKC-TMC1206-05-1501-J?? TKC-TMC1206-05-1801-J TKC-TMC1206-05-20R0-F TKC-TMC1206-05-3901-J TKC-TMC1206-05-44R2-F TKC-TMC1206-05-4703-J??