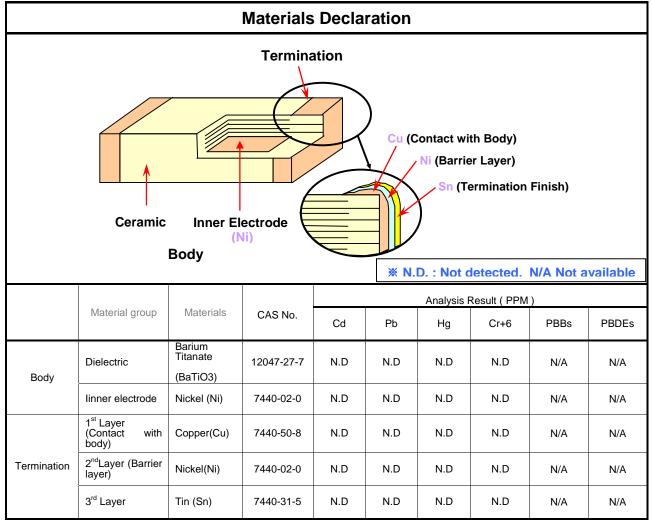
Supplier's Declaration On Restricted or Banned Materials and Chemical Substances

Date from 2013

SAMSUNG ELECTRO-MECHANICS

TITLE: RoHS 2 Compliance		
CUSTOMER:	PRODUCT: MLCC	Prepared by EunHee Ma
SAMSUNG ELECTRO-MECHANICS DOCUMENT This document is the property of Samsung Electro-mechanics Co., Ltd. Information herein is confidential. Disclosure to individuals or organizations external to the Samsung Electro- Mechanics is prohibited without proper authorization		

We, Samsung, declare that our component <u>MLCC</u> is produced in accordance with Pbfree technology and can be used in Pb-free production and that it fulfills the European Directive 2011/65/EU (known as the "RoHS" Directive)



The detail information about ingredients of our MLCC is as below.

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Banned Substances under RoHS directive

Substance	USE(O/X)	Purposes of Use
Lead and its compounds	Х	
Mercury and compounds	X	
Hexavalent Chromium	Х	
Cadmium and its compounds	X	
Polybrominated biphenyls(PBBs)	X	
Polybrominated diphenyls ethers(PBDEs)	Х	

Halogen substances

Substance	USE(O/X)	Purposes of Use
Bromine (Br)	Х	
Chlorine (Cl)	Х	

Controlled substances

Substance	USE(O/X)	Purposes of Use
Antimony and its compounds	Х	
Arsenic and its compounds	Х	
Beryllium and its compounds	Х	
Barium and its compounds	Х	
Manganese and its compounds	Х	
Organic-tin compounds	Х	
Nickel and its compounds	0	Inner Electrode/ Plating (Barrier Layer)
Bismuth and its compounds	Х	
Copper and its compounds	0	Termination
Asbestos etc.	Х	
Cyanides	Х	
Polychloroterphenyls(PCTs)	Х	
Polychlorinated biphenyls(PCBs)	Х	
Polyvinyl chloride(PVC)	Х	

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Product Weight

	Size Code	Length x width x Thickness [mm]	Weight [g]
	CL 1005 Series (0402)	1.0 × 0.5 ×0.5	0.00040~0.0014
	CL 1608 Series (0603)	1.6 × 0.8 ×0.8	0.00046~0.0078
Chip Weight with case size	CL 2012 Series (0805)	2.0 × 1.25 ×1.25	0.0052~0.0182
	CL 3216 Series (1206)	3.2 × 1.6 ×1.6	0.0191~0.0487
	CL 3225 Series (1210)	3.2 × 2.5 ×2.5	0.0438~0.1186
	CL 4532 Series (1812)	4.5 × 3.2 ×3.2	0.0787~0.1939
	CL 5750 Series (2220)	5.7 × 5.0 ×3.2	0.2418~0.2979

no

Signature of Authorized Company Representative

Position	E-mail	
General Manager	hyukjoon.youn@samsung.com	
Address	Phone	
314, Maetan-3dong, Youngtong-Gu, Suwon-Si, Kyungki-Do, 442-743	3, Korea 82-31-210-3694	
Company Environmental Authorized person (if other than above) E-mail		
EunHee Ma	eunhee.ma@samsung.com	

Address
Phone
Same as above 82-31-218-2634

If you have another question, feel free to ask the our salesperson .

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