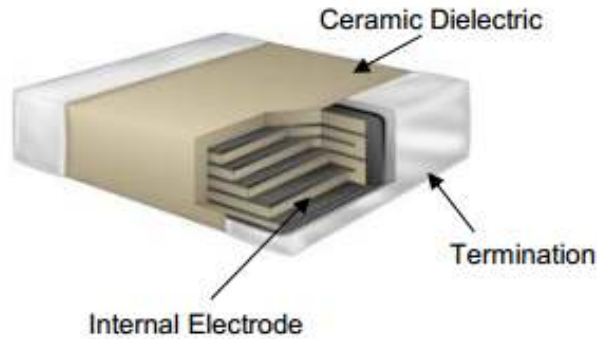


Material Declaration

C0G Surface Mount Ceramic Capacitor



Environmental Compliance	
Pb Free	YES
RoHS Compliant	YES
Halogen Free	YES

Homogeneous Level	Construction Element	Substance	Weight	Common Name	CAS #	SGS Report No.
Ceramic Body	Ceramic Dielectric	Calcium Zirconate	See Annex 3	CaZrO ₃	12013-47-7	CE_2015_A0151
	Electrode paste	Nickel		Ni	7440-02-0	CE_2015_93730
Termination	Base Metal	Copper		Cu	7440-50-8	CE_2015_A0153
	Under layer	Nickel		Ni	7440-02-0	CE_2015_84060
	Finish plating	Tin		Sn	7440-31-5	CE_2015_84061

Annex 3

Material Declaration

COG Surface Mount Ceramic Capacitor



Series				COG				
Case Size				0402	0603	0805	1206	1210
Homogeneous Level	Material	Substance	CAS No.	weight [mg]	weight [mg]	weight [mg]	weight [mg]	weight [mg]
Ceramic Dielectric	Calcium Zirconate	CaZrO3	12013-47-7	0.89	3.06	6.62	15.21	31.17
	Miscellaneous		-	0.16	0.55	1.20	2.75	5.63
Homogeneous Level Weight				1.06	3.61	7.82	17.96	36.80
Internal Electrode	Electrode paste	Ni	7440-02-0	0.06	0.41	1.32	2.41	4.24
Homogeneous Level Weight				0.06	0.41	1.32	2.41	4.24
Termination	Base Metal	Cu	7440-50-8	0.01	0.28	0.65	0.82	2.04
	Under layer	Ni	7440-02-0	0.03	0.08	0.18	0.27	0.50
	Finish plating	Sn	7440-31-5	0.05	0.12	0.26	0.40	0.72
Homogeneous Level Weight				0.09	0.49	1.09	1.49	3.25
Total Weight				1.21	4.51	10.22	21.86	44.30