

Material Data Sheet

Product Name : Crystal Resonator

Product Type : CX3225SB series

Product Weight : 19.101 mg

Component Name	Mass(mg)	CAS Number	Substance Name	Concentration (wt%)	Mass(mg)	ELV Exempted Application	RoHS Exempted Application
CRYSTAL	1.118	14808-60-7	Quartz (SiO2)	100	1.118		
ELECTRODE	0.006	7440-57-5	Gold	100	0.006		
ELECTRODE(Substrate)	0.001	7440-47-3	Chromium	100	0.001		
BASE	9.969	1344-28-1	Aluminium oxide	92.5	9.221325		
		7631-86-9	Silicon dioxide	5	0.49845		
		1305-78-8	Calcium oxide	0.5	0.049845		
		1309-48-4	Magnesium oxide	0.5	0.049845		
		1308-38-9	Chromium oxide	0.5	0.049845		
BASE(metalization)	2.171	7440-33-7	Tungsten	97	2.10587		
		7439-98-7	Molybdenum	3	0.06513		
BASE(Electrolysis Ni plating)	0.935	7440-02-0	Nickel	80	0.748		
		7440-48-4	Cobalt	20	0.187		
BASE(Au plating)	0.094	7440-57-5	Gold	99.998	0.09399812		
		7440-28-0	Thallium	0.002	0.00000188		
LID	3.46	7439-89-6	Iron	53.7	1.85802		
		7440-02-0	Nickel	29.7	1.02762		
		7440-48-4	Cobalt	16.3	0.56398		
		7439-96-5	Manganese	0.25	0.00865		
		7440-21-3	Silicon	0.05	0.00173		
LID(Electrolysis Ni Clad)	0.35	7440-02-0	Nickel	99.8	0.3493		
		7439-96-5	Manganese	0.2	0.0007		
LID(Seal material)	0.985	7440-22-4	Silver	72	0.7092		
		7440-50-8	Copper	28	0.2758		
ADHESIVE	0.012	7440-22-4	Silver	80	0.0096		
		-	Silicone resin	9	0.00108		
		14808-60-7	Quartz (SiO2)	7	0.00084		
		-	Misc., not to declare	4	0.00048		

This component is compliant with the European RoHS material requirements.