Material Data Declaration Sheet

ECS INC. INTERNATIONAL

ECS Model	ECS-CTP Series	
Product Description	Ceramic Resonator	
Product Total Weight	116mg/pcs	
Contact Information	Company	ECS INC. INTERNATIONAL
	Contact Name	AJ Anderson
	Address	15351 W 109th Street
		Lenexa, KS 66219
	Phone Number	913-782-7787

Homogenous Component/Subcomponent	Homogenous Component/Sub component Weight (mg)	Substance	CAS Number	Substance Weight (mg)	Substance %	PPM
Cover and Base	86.0000	SiO2	14464-46-1	56	65.12	651163
		TiO2	13463-67-7	24	27.91	279070
		Other	-	6	6.98	69767
Electrode Layer	1.8000	Ag	7440-22-4	0.9	50.00	500000
		Ni	7440-02-0	0.45	25.00	250000
		Cu	7440-50-8	0.45	25.00	250000
Outer Electrode Layer	1.8000	Ni	7440-02-0	0.9	50.00	500000
		Ag	7440-22-4	0.36	20.00	200000
		Sn	7440-31-5	0.54	30.00	300000
Ceramic Chip	11.2000	Lead titanium zerconium oxide	12626-81-2	10.976	98.00	980000
		Other	-	0.224	2.00	20000
Epoxy Adhesive	2.4600	Epoxy Resin	9004-57-3	0.96	39.02	390244
		Resin	61788-97-4	1.44	58.54	585366
		Imidarole	288-32-4	0.06	2.44	24390
Ceramic Capacitors	11.5400	TiO2	13463-67-7	5	43.33	433276
		SrCO3	1633-05-2	1.54	13.34	133449
		CaCO3	471-34-1	5	43.33	433276
Conductive Adhesive	1.2000	Resin	61788-97-4	0.48	40.00	400000
		Ag	7440-22-4	0.72	60.00	600000