


Material Data Declaration Sheet

ECS INC. INTERNATIONAL

ECS Model	ZTA Series					
Product Description	Ceramic Resonator					
Product Total Weight	143.76mg/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)	Element %	Remark
Resonator Body	88.9800	SiO2	14464-46-1	53.30791800	59.9100	
		Epoxy resin	61788-97-4	34.03271448	38.2476	
		CaCO3	471-34-1	1.63936752	1.8424	
Terminal	12.48	Cu	7440-50-8	8.22800160	65.9295	
		P	7723-14-0	0.07287072	0.5839	
		Sn	7440-31-5	0.18806112	1.5069	
		Zn	7440-66-6	3.99106656	31.9797	
Soldering Wire	7.02	Sn	7440-31-5	6.84430344	97.4972	
		Ag	7440-22-4	0.14049828	2.0014	
		Cu	7440-50-8	0.03519828	0.5014	
Ceramic Chip	32.26	Pb	7439-92-1	13.80644124	42.7974	RoHS Exempted
		TiO2	13463-67-7	9.22677938	28.6013	
		ZrO2	1314-23-4	9.22677938	28.6013	
Electrode Layer	3	Ag	7440-22-4	1.50000000	50.0000	
		Ni	7440-02-0	0.75000000	25.0000	
		Cu	7440-50-8	0.75000000	25.0000	
Marking Oil	0.02	Epoxy resin	25068-38-6	0.01066000	53.3000	
		BaSO4	7727-43-7	0.00900000	45.0000	
		Carbon black	1333-86-4	0.00034000	1.7000	