


**Material Data Declaration Sheet**

**ECS INC. INTERNATIONAL**

ECS Model	ZTT Series					
Product Description	Ceramic Resonator					
Product Total Weight	150mg/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)	PPM	Remark
Resonator Body	88.9800	SiO2	14464-46-1	53.30791800	355386	
		Epoxy resin	61788-97-4	34.03271448	226885	
		CaCO3	471-34-1	1.63936752	10929	
Terminal	18.72	Cu	7440-50-8	12.34200240	82280	
		P	7723-14-0	0.10930608	729	
		Sn	7440-31-5	0.28209168	1881	
		Zn	7440-66-6	5.98659984	39911	
Soldering Wire	7.02	Sn	7440-31-5	6.84430344	45629	
		Ag	7440-22-4	0.14049828	937	
		Cu	7440-50-8	0.03519828	235	
Ceramic Chip	32.26	Pb	7439-92-1	13.80644124	92043	RoHS Exempted
		TiO2	13463-67-7	9.22677938	61512	
		ZrO2	1314-23-4	9.22677938	61512	
Electrode Layer	3	Ag	7440-22-4	1.50000000	10000	
		Ni	7440-02-0	0.75000000	5000	
		Cu	7440-50-8	0.75000000	5000	
Marking Oil	0.02	Epoxy resin	25068-38-6	0.01066000	71	
		BaSO4	7727-43-7	0.00900000	60	
		Carbon black	1333-86-4	0.00034000	2	