Material Data Declaration Sheet

ECS INC. INTERNATIONAL

ECS Model Number	ECX-34S (-34S Package Type)	
Product Description	SMD Crystal	
Product Revision		
Product Total Weight	13.34mg/pcs	
Contact Information	Company	ECS INC. INTERNATIONAL
	Contact Name	AJ Anderson
	Address	15351 W. 109th Street
		Lenexa, Kansas 66219
	Phone Number	913-782-7787

Homogenous Component/Subcomponent	Homogenous Component/Sub component Weight (mg)	Substance	CAS number	Substance Weight (mg)	PPM Level (If Available) (Substance Weight/Total Homogenous Component or Subcomponent Weight*1000000)	Purpose/Location
Base	9.1500	Alumina-Al_2O_3	1344-28-1	6.718	734208	Ceramic
		Silica-Sio_2	14808-60-7	0.267	29180	Ceramic
		Titanium oxide-TiO2	13463-67-7	0.074	8087	Ceramic
		Magnesia-MgO	1309-48-4	0.037	4044	Ceramic
		Calcia-CaO	1305-78-8	0.025	2732	Ceramic
		Chromium oxide-Cr_2O_3	1308-38-9	0.287	31366	Ceramic
		Tungsten-W	7440-33-7	1.401	153115	Electric conductor
		Molybdenum-Mo	7439-98-7	0.043	4699	Electric conductor
		Nickel-Ni	7440-02-0	0.181	19781	Plating
		Cobalt-Co	7440-48-4	0.045	4918	Plating
		Gold-Au	7440-57-5	0.072	7869	Plating
LID	3.287	Iron-Fe	7439-89-6	1.585	482203	Alloy
		Nickel-Ni	7440-02-0	0.835	254031	Alloy
		Cobalt-Co	7440-48-4	0.461	140249	Alloy
		Gold-Au	7440-57-5	0.004	1217	Plating
		Nickel-Ni	7440-02-0	0.002	608	Plating
		Gold-Au	7440-57-5	0.320	97353	Seal
		Tin-Sn	7440-31-5	0.080	24338	Seal
Seal Material	0.518	Gold-Au	7440-57-5	0.453	874517	
		Ge	7440-56-4	0.065	125483	
Blank	0.305	Silica SiO2	14808-60-7	0.302	990164	Quartz crystal
		Ti	7440-32-6	0.001	3279	Electrode
		Pd	7440-05-3	0.001	3279	Electrode
		Gold-Au	7440-57-5	0.001	3279	Electrode
Bond	0.08	Ag	7440-22-4	0.072	900000	
		Silicone Resin	67763-03-5	0.008	100000	