Material Data Declaration Sheet

ECS INC. INTERNATIONAL

ECS Model Number	ECX-49 (-49 Package Type)	
Product Description	4.1x1.5mm 32.768 kHz SMD Crystal	
Product Revision		
Product Total Weight	16.0848mg/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 Level (If Available) (Substance Weight/Total Homogenous Component or Subcomponent Weight*1000000)	Purpose/Location
Base	11.2190	Alumina-Al_2O_3	1344-28-1	8.4096	749586	Ceramic
		Silica-SiO_2	7631-86-9	0.3738	33318	Ceramic
		Calcium oxide-CaO	1305-78-8	0.0467	4163	Ceramic
		Magnesium oxide-MgO	1309-48-4	0.0467	4163	Ceramic
		Chromium oxide-Cr_2O_3	1308-38-9	0.3738	33318	Ceramic
		Titanium oxide-TiO_2	13463-67-7	0.0934	8325	Ceramic
		Tungsten-W	7440-33-7	1.5161	135137	Electric conductor
		Molybdenum-Mo	7439-98-7	0.0469	4180	Electric conductor
		Nickel-Ni	7440-02-0	0.1952	17399	Plating
		Cobalt-Co	7440-48-4	0.0488	4350	Plating
		Gold-Au	7440-57-5	0.0680	6061	Plating
LID	3.8943	Iron-Fe	7439-89-6	1.8070	464012	Alloy
		Nickel-Ni	7440-02-0	0.9530	244717	Alloy
		Cobalt-Co	7440-48-4	0.5260	135069	Alloy
		Gold-Au	7440-57-5	0.0054	1387	Plating
		Nickel-Ni	7440-02-0	0.0029	745	Plating
		Gold-Au	7440-57-5	0.4800	123257	Seal
		Tin-Sn	7440-31-5	0.1200	30814	Seal
Seal Material	0.5181	Gold-Au	7440-57-5	0.4533	874928	
		Germanium-Ge	7440-56-4	0.0648	125072	
Blank	0.3534	Silica-SiO_2	14808-60-7	0.3460	979061	Quartz crystal
		Titanium-Ti	7440-32-6	0.0006	1698	Electrode
		Palladium-Pd	7440-05-3	0.0001	283	Electrode
		Gold-Au	7440-57-5	0.0065	18393	Electrode
		Chromium-Cr	7440-47-3	0.0002	566	Electrode
Bond	0.1000	Silver-Ag	7440-22-4	0.0800	800000	
		Silicone Resin	67763-03-4	0.0140	140000	
		Silica-SiO_2	7631-86-9	0.0060	60000	