Material Data Declaration Sheet

ECS INC. INTERNATIONAL

ECS Model	ECS-1612MV Series	
Product Description	1.6x1.2mm Multi-Volt SMD Oscillator	
Product Total Weight	4.1195414mg/pc	
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
Lid	0.8118	Silver-Ag	7440-22-4	0.0893000	110002	Silver Solder
		Copper-Cu	7440-50-8	0.0387000	47672	Silver Solder
		Tin-Sn	7440-31-5	0.0053000	6529	Silver Solder
		Iron-Fe	7439-89-6	0.3652000	449864	Kovar
		Nickel-Ni	7440-02-0	0.1947000	239837	Kovar
		Cobalt-Co	7440-48-4	0.1074000	132299	Kovar
		Manganese-Mn	7439-96-5	0.0034000	4188	Kovar
		Silicon-Si	7440-21-3	0.0007000	862	Kovar
		Nickel-Ni	7440-02-0	0.0067000	8253	Ni Plating
		Phosphorus-P	7723-14-0	0.0004000	493	Ni Plating
Case	3.0628004	Aluminum oxide-Al2O3	1344-28-1	2.2273000	727210	Ceramic
		Chromium oxide-Cr2O3	1308-38-9	0.0958000	31279	Ceramic
		Silicon dioxide-SiO2	14808-60-7	0.0884000	28862	Ceramic
		Titanium dioxide-TiO2	13463-67-7	0.0246000	8032	Ceramic
		Magnesium Oxide-MgO	1309-48-4	0.0123000	4016	Ceramic
		Calcium oxide- CaO	1305-78-8	0.0074000	2416	Ceramic
		Tungsten-W	7440-33-7	0.4370000	142680	Metalize
		Molybdenum-Mo	7439-98-7	0.0135000	4408	Metalize
		Nickel-Ni	7440-02-0	0.1107000	36143	Ni Plating
		Cobalt-Co	7440-48-4	0.0277000	9044	Ni Plating
		Gold-Au	7440-57-5	0.0181000	5910	Au Plating
		Thallium-Tl	7440-28-0	0.0000004	0	Au Plating
Crystal Blank	0.0811	Quartz-SiO2	14808-60-7	0.0811000	1000000	Crystal Blank
Electrode	0.00014	Chromium-Cr	7440-47-3	0.0000300	214286	Electrode
		Gold-Au	7440-57-5	0.0001100	785714	Electrode
Electric Conductive Adhesive	0.0397	Silver-Ag	7440-22-4	0.0298000	750630	Conductive Adhesive
		Silicone resin	67763-03-5	0.0099000	249370	Conductive Adhesive
IC	0.124001	Silicon-Si	7440-21-3	0.1189000	958863	IC
		Aluminum-Al	7429-90-5	0.0002000	1613	IC
		Copper-Cu	7440-50-8	0.0000010	8	IC
		Tungsten-W	7440-33-7	0.0001000	806	IC
		Gold-Au	744057-5	0.0048000	38709	IC