

Material Data Declaration Sheet

ECS INC. INTERNATIONAL



ECS Model	ECS-327ATQMV Series	
Product Description	32.768 kHz Multi-volt Oscillator	
Product Total Weight	4.1197414mg/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/Subcomponent Weight (mg)	Substance	CAS number	Substance Weight (mg)	PPM Level (If Available) (Substance Weight/Total Homogenous Component or Subcomponent Weight*1000000)	Purpose/Location
Lid	0.811800	Silver-Ag	7440-22-4	0.0893000	21676	Silver Solder
		Copper-Cu	7440-50-8	0.0387000	9394	Silver Solder
		Tin-Sn	7440-31-5	0.0053000	1286	Silver Solder
		Iron-Fe	7439-89-6	0.3652000	88646	Kovar
		Nickel-Ni	7440-02-0	0.1947000	47260	Kovar
		Cobalt-Co	7440-48-4	0.1074000	26070	Kovar
		Manganese-Mn	7439-96-5	0.0034000	825	Kovar
		Silicon-Si	7440-21-3	0.0007000	170	Kovar
		Nickel-Ni	7440-02-0	0.0067000	1626	Ni Plating
		Phosphorus-P	7723-14-0	0.0004000	97	Ni Plating
Case	3.062800	Aluminum oxide-Al2O3	1344-28-1	2.2273000	540641	Ceramic
		Chromium oxide-Cr2O3	1308-38-9	0.0958000	23254	Ceramic
		Silicon dioxide-SiO2	14808-60-7	0.0884000	21458	Ceramic
		Titanium dioxide-TiO2	13463-67-7	0.0246000	5971	Ceramic
		Magnesium Oxide-MgO	1309-48-4	0.0123000	2986	Ceramic
		Calcium oxide- CaO	1305-78-8	0.0074000	1796	Ceramic
		Tungsten-W	7440-33-7	0.4370000	106075	Metalize
		Molybdenum-Mo	7439-98-7	0.0135000	3277	Metalize
		Nickel-Ni	7440-02-0	0.1107000	26871	Ni Plating
		Cobalt-Co	7440-48-4	0.0277000	6724	Ni Plating
		Gold-Au	7440-57-5	0.0181000	4393	Au Plating
		Thallium-Tl	7440-28-0	0.0000004	0	Au Plating
		Crystal Blank	0.081100	Quartz-SiO2	14808-60-7	0.0811000
Electrode	0.000140	Chromium-Cr	7440-47-3	0.0000300	7	Electrode
		Gold-Au	7440-57-5	0.0001100	27	Electrode
Electric Conductive Adhesive	0.039700	Silver-Ag	7440-22-4	0.0298000	7233	Conductive Adhesive
		Silicone resin	Proprietary	0.0099000	2403	Conductive Adhesive
IC	0.124201	Silicon-Si	7440-21-3	0.1189000	28861	IC
		Aluminum-Al	7429-90-5	0.0002000	49	IC
		Titanium-Ti	7440-32-6	0.0002000	49	IC
		Copper-Cu	7440-50-8	0.0000010	0	IC
		Tungsten-W	7440-33-7	0.0001000	24	IC
		Gold-Au	744057-5	0.0048000	1165	IC