Material Data Declaration Sheet

ECS INC. INTERNATIONAL

ECS Model Number	ECX-1637QZ (-37QZ Package Type)
Product Description	2.0x1.6mm AEC-Q200 / TPMS SMD Crystal
Product Revision	
Product Total Weight	0.006830g/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/Subcomponent Weight (g)	Substance	CAS number	Substance Weight (g)	PPM Level (If Available) (Substance Weight/Total Homogenous Component or	Purpose/Location
Base	0.003780	Alumina-Al_2O_3	1344-28-1	0.002776	734392	Ceramic
		Silica-SiO_2	14808-60-7	0.000093	24603	Ceramic
		Titanium oxide-TiO2	13463-67-7	0.000017	4497	Ceramic
		Magnesia-MgO	1309-48-4	0.000016	4233	Ceramic
		Calcia-CaO	1305-78-8	0.000016	4233	Ceramic
		Chromium oxide-Cr_2O_3	1308-38-9	0.000167	44180	Ceramic
		Tungsten-W	7440-33-7	0.000513	135714	Electric conductor
		Molybdenum-Mo	7439-98-7	0.000017	4497	Electric conductor
		Nickel-Ni	7440-02-0	0.000095	25132	Ni plating
		Cobalt-Co	7440-48-4	0.000041	10847	Ni plating
		Gold-Au	7440-57-5	0.000029	7672	Au plating
Cover	0.002600	Iron-Fe	7439-89-6	0.001092	420000	Alloy
		Nickel-Ni	7440-02-0	0.000702	270000	Alloy
		Cobalt-Co	7440-48-4	0.000338	130000	Alloy
		Gold-Au	7440-57-5	0.000364	140000	Alloy
		Tin-Sn	7440-31-5	0.000104	40000	Alloy
Crystal Blank	0.000318	Silica SiO2	14808-60-7	0.000318	1000000	Quartz crystal
Electrode	0.000031	Silver-Ag	7440-22-4	0.000030000	967742	Electrode
		Chromium-Cr	7440-47-3	0.000001000	32258	Electrode
Electro Conductive Adhesive	0.000101	Silver-Ag	7440-22-4	0.000076	752475	Connect
		Silicone Resin	67763-03-5	0.000025	247525	Support