

**Material Data Declaration Sheet**

**ECS INC. INTERNATIONAL**

ECS Model Number	ECX-2236 (-36 Package Type)
Product Description	SMD Crystal
Product Revision	
Product Total Weight	0.011549g/pcs



Contact Information	Company	ECS INC. INTERNATIONAL
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Homogenous Component/Subcomponent	Homogenous Component/Subcomponent Weight (g)	Substance	CAS number	Substance Weight (g)	PPM Level (If Available) (Substance Weight/Total Homogenous Component or Subcomponent Weight*1000000)	Purpose/Location
Base	0.0075	Alumina-Al <sub>2</sub> O <sub>3</sub>	1344-28-1	0.003689	319422	Ceramic
		Silica-SiO <sub>2</sub>	14808-60-7	0.000124	10737	Ceramic
		Titanium oxide-TiO <sub>2</sub>	13463-67-7	0.000023	1992	Ceramic
		Magnesia-MgO	1309-48-4	0.000022	1905	Ceramic
		Calcia-CaO	1305-78-8	0.000021	1818	Ceramic
		Chromium oxide-Cr <sub>2</sub> O <sub>3</sub>	1308-38-9	0.000221	19136	Ceramic
		Tungsten-W	7440-33-7	0.000801	69357	Electric conductor
		Molybdenum-Mo	7439-98-7	0.000025	2165	Electric conductor
		Silver-Ag	7440-22-4	0.000340	29440	Brazing material
		Copper-Cu	7440-50-8	0.000132	11430	Brazing material
		Iron-Fe	7439-89-6	0.001009	87367	Kovar ring
		Nickel-Ni	7440-02-0	0.000496	42947	Kovar ring
		Cobalt-Co	7440-48-4	0.000317	27448	Kovar ring
		Nickel-Ni	7440-02-0	0.000202	17491	Ni plating
		Cobalt-Co	7440-48-4	0.000067	5801	Ni plating
Gold-Au	7440-57-5	0.000049	4243	Au plating		
Cover	0.00346	Iron	7439-89-6	0.001846	159841	Alloy
		Nickel	7440-02-0	0.001003	86847	Alloy
		Cobalt	7440-48-4	0.000588	50913	Alloy
		Manganese Mn	7439-96-5	0.000017	1472	Alloy
		Silicone Si	7440-21-3	0.000007	606	Alloy
		Carbon C	7440-44-0	0.000001	87	Alloy
		Crystal Blank	0.000409	Silica SiO <sub>2</sub>	14808-60-7	0.000409
Evaporation	0.000039	Gold-Au	7440-57-5	0.000038000	3290	Electrode
		Chromium Cr	7440-47-3	0.000001000	87	Electrode
Electro Conductive Adhesive	0.000101	Silver Ag	7440-22-4	0.000076	6581	Connect
		Silicone Resin	7440-21-3	0.000025	2165	Support