

**Material Data Declaration Sheet**

**ECS INC. INTERNATIONAL**

ECS Model Number	ECX-2236B2 (-36B2 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	0.007538	Alumina-Al <sub>2</sub> O <sub>3</sub>	1344-28-1	0.003689	489387	Ceramic
		Silica-SiO <sub>2</sub>	14808-60-7	0.000124	16450	Ceramic
		Titanium oxide-TiO <sub>2</sub>	13463-67-7	0.000023	3051	Ceramic
		Magnesia-MgO	1309-48-4	0.000022	2919	Ceramic
		Calcia-CaO	1305-78-8	0.000021	2786	Ceramic
		Chromium oxide-Cr <sub>2</sub> O <sub>3</sub>	1308-38-9	0.000221	29318	Ceramic
		Tungsten-W	7440-33-7	0.000801	106262	Electric conductor
		Molybdenum-Mo	7439-98-7	0.000025	3317	Electric conductor
		Silver-Ag	7440-22-4	0.000340	45105	Brazing material
		Copper-Cu	7440-50-8	0.000132	17511	Brazing material
		Iron-Fe	7439-89-6	0.001009	133855	Kovar ring
		Nickel-Ni	7440-02-0	0.000496	65800	Kovar ring
		Cobalt-Co	7440-48-4	0.000317	42054	Kovar ring
		Nickel-Ni	7440-02-0	0.000202	26798	Ni plating
Cover	0.003462	Cobalt-Co	7440-48-4	0.000067	8888	Ni plating
		Gold-Au	7440-57-5	0.000049	6500	Au plating
		Iron-Fe	7439-89-6	0.001846	533218	Alloy
Crystal Blank	0.000409	Nickel-Ni	7440-02-0	0.001003	289717	Alloy
		Cobalt-Co	7440-48-4	0.000588	169844	Alloy
		Manganese-Mn	7439-96-5	0.000017	4910	Alloy
		Silicone-Si	7440-21-3	0.000007	2022	Alloy
		Carbon-C	7440-44-0	0.000001	289	Alloy
Evaporation	0.000039	Silica-SiO <sub>2</sub>	14808-60-7	0.000409	1000000	Quartz crystal
		Gold-Au	7440-57-5	0.000038	974359	Electrode
Electro Conductive Adhesive	0.000101	Chromium-Cr	7440-47-3	0.000001	25641	Electrode
		Silver-Ag	7440-22-4	0.000076	752475	Connect
		Silicone Resin	67763-03-5	0.000025	247525	Support