

# Material Data Declaration Sheet

**ECS INC. INTERNATIONAL**

ECS Model Number	ECX-34R (-34R Package Type)
Product Description	SMD Crystal
Product Revision	
Product Total Weight	13.337mg/pcs



Contact Information	Company	ECS INC. INTERNATIONAL
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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
Base	9.1500	Alumina-Al <sub>2</sub> O <sub>3</sub>	1344-28-1	6.718	503711	Ceramic
		Silica-SiO <sub>2</sub>	14808-60-7	0.267	20019	Ceramic
		Titanium oxide-TiO <sub>2</sub>	13463-67-7	0.074	5548	Ceramic
		Magnesia-MgO	1309-48-4	0.037	2774	Ceramic
		Calcia-CaO	7440-70-2	0.025	1874	Ceramic
		Chromium oxide-Cr <sub>2</sub> O <sub>3</sub>	1308-38-9	0.287	21519	Ceramic
		Tungsten-W	7440-33-7	1.401	105046	Electric conductor
		Molybdenum-Mo	7439-98-7	0.043	3224	Electric conductor
		Nickel-Ni	7440-02-0	0.181	13571	Plating
		Cobalt-Co	7440-48-4	0.045	3374	Plating
		Gold-Au	7440-57-5	0.072	5399	Plating
LID	3.286	Iron-Fe	7439-89-6	1.585	118842	Alloy
		Nickel-Ni	7440-02-0	0.835	62608	Alloy
		Cobalt-Co	7440-48-4	0.461	34565	Alloy
		Gold-Au	7440-57-5	0.004	300	Plating
		Nickel-Ni	7440-02-0	0.002	150	Plating
		Gold-Au	7440-57-5	0.320	23993	Seal
		Tin-Sn	7440-31-5	0.080	5998	Seal
Seal Material	0.518	Gold-Au	7440-57-5	0.453	33966	
		Ge	7440-56-4	0.065	4874	
Blank	0.303	Silica SiO <sub>2</sub>	14808-60-7	0.302	22644	Quartz crystal
		Ti	7440-32-6	0.001	75	Electrode
		Pd	7440-05-3	0.000	0	Electrode
		Gold-Au	7440-57-5	0.000	0	Electrode
Bond	0.08	Ag	7440-22-4	0.072	5399	
		Silicone Resin	67763-03-5	0.008	600	