

**Material Data Declaration Sheet**

**ECS INC. INTERNATIONAL**

ECS Model Number	ECX-53Q (-30Q Package Type)
Product Description	SMD Crystal
Product Revision	
Product Total Weight	0.077g/pcs



Contact Information	Company	ECS INC. INTERNATIONAL
	Contact Name	AJ Anderson
	Address	15351 W. 109th Street Lenexa, Kansas 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 Subcomponent Weight*1000000)	Purpose/Location
5032 PKG	0.0330	Alumina-Al <sub>2</sub> O <sub>3</sub>	1344-28-1	0.018975	246429	Ceramic
		Silica-SiO <sub>2</sub>	14808-60-7	0.000627	8143	Ceramic
		Titanium oxide-TiO	13463-67-7	0.000132	1714	Ceramic
		Magnesia-MgO	1309-48-4	0.000099	1286	Ceramic
		Calcia-CaO	7440-70-2	0.000099	1286	Ceramic
		Chromium oxide-Cr <sub>2</sub> O <sub>3</sub>	1308-38-9	0.001155	15000	Ceramic
		Tungsten-W	7440-33-7	0.002376	30857	Electric conductor
		Molybdenum-Mo	7439-98-7	0.000066	857	Electric conductor
		Silver-Ag	7440-22-4	0.000957	12429	Brazing material
		Copper-Cu	7440-50-8	0.000363	4714	Brazing material
		Iron-Fe	7439-89-6	0.003795	49286	Kovar ring
		Nickel-Ni	7440-02-0	0.002046	26571	Kovar ring
		Cobalt-Co	7440-48-4	0.001188	15429	Kovar ring
		Nickel-Ni	7440-02-0	0.000594	7714	Ni plating
Cobalt-Co	7440-48-4	0.000231	3000	Ni plating		
Gold-Au	7440-57-5	0.000297	3857	Au plating		
LID	0.023	Iron	7439-89-6	0.0122429	158999	Alloy
		Nickel	7440-02-0	0.0067827	88087	Alloy
		Cobalt	7440-48-4	0.0038548	50062	Alloy
		Mn	7439-96-5	0.0000897	1165	Alloy
		Silicone Si	7440-21-3	0.0000184	239	Alloy
		Copper Cu	7440-50-8	0.0000115	149	Alloy
Blank	0.003	Silica SiO <sub>2</sub>	14808-60-7	0.003	38961	Quartz crystal
Silver	0.013	Silver Ag	7440-22-4	0.012999116	168820	Electrode
		Copper Cu	7440-50-8	0.000000884	11	Electrode
Epoxy	0.005	Silver Ag	7440-22-4	0.00425	55195	Connect
		Silicone Resin	67763-03-5	0.00075	9740	Support