

Material Data Declaration Sheet

ECS Part Number	ECX-1048B (-48B Package Type)
Product Description	1.2x1.0mm SMD Crystal
Product Revision	
Product Total Weight	1.4353102mg/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
1.2 x 1.0 PKG	0.92710020	Al ₂ O ₃	1344-28-1	0.6026000	649984	Ceramic
		Mn ₂ O ₃	1317-34-6	0.0221000	23838	Ceramic
		SiO ₂	14808-60-7	0.0208000	22436	Ceramic
		MoO ₃	1313-27-5	0.0033000	3559	Ceramic
		MgO	1309-48-4	0.0020000	2157	Ceramic
		Mo	7439-98-7	0.1456000	157049	Metalize
		Ni	7440-02-0	0.0950000	102470	Ni Plating
		Co	7440-48-4	0.0238000	25671	Ni Plating
		Au	7440-57-5	0.0119000	12836	Au Plating
		Tl	7440-28-0	0.0000002	0	Au Plating
Lid	0.44240000	Fe	7439-89-6	0.1851000	418400	Kovar
		Ni	7440-02-0	0.0987000	223101	Kovar
		Co	7440-48-4	0.0544000	122966	Kovar
		Mn	7439-96-5	0.0017000	3843	Kovar
		Si	7440-21-3	0.0003000	678	Kovar
		Ni	7440-02-0	0.0037000	8363	Ni Plating
		P	7723-14-0	0.0002000	452	Ni Plating
		Ag	7440-22-4	0.0659000	148960	Silver Solder
		Cu	7440-50-8	0.0285000	64421	Silver Solder
		Sn	7440-31-5	0.0039000	8816	Silver Solder
Crystal Element	0.04380000	SiO ₂	14808-60-7	0.0438000	1000000	Quartz crystal
Electrode	0.00011000	Ag	7440-22-4	0.0000800	727273	Electrode
		Cr	7440-47-3	0.0000300	272727	Electrode
Silver Glue	0.02190000	Ag	7440-22-4	0.0164000	748858	Epoxy
		Silicone Resin	67763-03-5	0.0055000	251142	Epoxy