

Material Data Declaration Sheet

ECS Part Number	ECX-1048B (-48B Package Type)
Product Description	SMD Crystal
Product Revision	
Product Total Weight	1.4353102mg/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 (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	419840	Ceramic
		Mn ₂ O ₃	1317-34-6	0.0221000	15397	Ceramic
		SiO ₂	14808-60-7	0.0208000	14492	Ceramic
		MoO ₃	1313-27-5	0.0033000	2299	Ceramic
		MgO	1309-48-4	0.0020000	1393	Ceramic
		Mo	7439-98-7	0.1456000	101441	Metalize
		Ni	7440-02-0	0.0950000	66188	Ni Plating
		Co	7440-48-4	0.0238000	16582	Ni Plating
		Au	7440-57-5	0.0119000	8291	Au Plating
		TI	7440-28-0	0.0000002	0	Au Plating
Lid	0.44240000	Fe	7439-89-6	0.1851000	128962	Kovar
		Ni	7440-02-0	0.0987000	68766	Kovar
		Co	7440-48-4	0.0544000	37901	Kovar
		Mn	7439-96-5	0.0017000	1184	Kovar
		Si	7440-21-3	0.0003000	209	Kovar
		Ni	7440-02-0	0.0037000	2578	Ni Plating
		P	7723-14-0	0.0002000	139	Ni Plating
		Ag	7440-22-4	0.0659000	45913	Silver Solder
		Cu	7440-50-8	0.0285000	19856	Silver Solder
		Sn	7440-31-5	0.0039000	2717	Silver Solder
Crystal Element	0.04380000	SiO ₂	14808-60-7	0.0438000	30516	Quartz crystal
Electrode	0.00011000	Au	7440-57-5	0.0000800	56	Electrode
		Cr	7440-47-3	0.0000300	21	Electrode
Silver Glue	0.02190000	Ag	7440-22-4	0.0164000	11426	Epoxy
		Silicone Resin	67763-03-5	0.0055000	3832	Epoxy