Material Data Declaration Sheet

ECS Part Number	ECX-1048 (-48 Package Type)	
Product Description	1.2x1.0mm SMD Crystal	
Product Revision		
Product Total Weight	5.538mg/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	3.88000000	Al_2O_3	1344-28-1	1.971428	508100	Ceramic
		Mn_2O_3	1317-34-6	0.072556	18700	Ceramic
		SiO_2	7631-86-9	0.068676	17700	Ceramic
		MoO_3	1313-27-5	0.010476	2700	Ceramic
		MgO	1309-48-4	0.006208	1600	Ceramic
		Mo	7439-98-7	0.565316	145700	Ceramic
		Ni	7440-02-0	0.323592	83400	Ceramic
		Co	7440-48-4	0.144724	37300	Ceramic
		Au	7440-57-5	0.039188	10100	Ceramic
		Fe	7439-89-6	0.353080	91000	Ceramic
		Ag	7440-22-4	0.275868	71100	Ceramic
		Cu	7440-50-8	0.048888	12600	Ceramic
Lid	1.36000000	Fe	7439-89-6	0.615264	452400	Kovar
		Ni	7440-02-0	0.519928	382300	Kovar
		Co	7440-48-4	0.215968	158800	Kovar
		Mn	7439-96-5	0.005984	4400	Kovar
		Si	7440-21-3	0.002720	2000	Kovar
		C	1333-86-4	0.000136	100	Kovar
Crystal Element	0.07740000	SiO_2	14808-60-7	0.077400	1000000	Quartz crystal
Electrode	0.02060000	Ag	7440-22-4	0.020000	970874	Electrode
		Cr	7440-47-3	0.000600	29126	Electrode
Silver Glue	0.20000000	Ag	7440-22-4	0.160000	800000	Adhesive
		Silicone Resin	67763-03-5	0.018600	93000	Adhesive
		n-Tridecane	629-50-5	0.018200	91000	Adhesive
		SiO_2	7631-86-9	0.003200	16000	Adhesive