

Material Data Declaration Sheet

ECS Part Number	ECX-1048 (-48 Package Type)
Product Description	SMD Crystal
Product Revision	
Product Total Weight	5.538mg/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	3.88000000	Al ₂ O ₃	1344-28-1	1.971428	355982	Ceramic
		Mn ₂ O ₃	1317-34-6	0.072556	13101	Ceramic
		SiO ₂	7631-86-9	0.068676	12401	Ceramic
		MoO ₃	1313-27-5	0.010476	1892	Ceramic
		MgO	1309-48-4	0.006208	1121	Ceramic
		Mo	7439-98-7	0.565316	102079	Ceramic
		Ni	7440-02-0	0.323592	58431	Ceramic
		Co	7440-48-4	0.144724	26133	Ceramic
		Au	7440-57-5	0.039188	7076	Ceramic
		Fe	7439-89-6	0.353080	63756	Ceramic
		Ag	7440-22-4	0.275868	49814	Ceramic
Lid	1.36000000	Cu	7440-50-8	0.048888	8828	Ceramic
		Fe	7439-89-6	0.615264	111099	Kovar
		Ni	7440-02-0	0.519928	93884	Kovar
		Co	7440-48-4	0.215968	38997	Kovar
		Mn	7439-96-5	0.005984	1081	Kovar
		Si	7440-21-3	0.002720	491	Kovar
		C	1333-86-4	0.000136	25	Kovar
Crystal Element	0.07740000	SiO ₂	14808-60-7	0.077400	13976	Quartz crystal
Evaporation	0.02060000	Au	7440-57-5	0.020000	3611	Gold
		Cr	7440-47-3	0.000600	108	Chromium
Silver Glue	0.20000000	Ag	7440-22-4	0.160000	28891	Adhesive
		Silicone Resin	67763-03-5	0.018600	3359	Adhesive
		n-Tridecane	629-50-5	0.018200	3286	Adhesive
		SiO ₂	7631-86-9	0.003200	578	Adhesive