

**Material Data Declaration Sheet**

**ECS INC. INTERNATIONAL**

ECS Model	CSM-12 (-18 Package Type)	Exemption 7( c )I Lead in a
Product Description	SMD Crystal	glass or ceramic matrix compound.
Product Total Weight	324.550006 mg/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)	Percent of Substance Content (by weight)
Base	177.070004	Al2O3	1344-28-1	154.630000	873270	87.33%
		SiO2	14808-60-7	6.140000	34676	3.47%
		Cr2O3	1308-38-9	6.600000	37273	3.73%
		TiO2	13463-67-7	1.710000	9657	0.97%
		CaO	1305-78-8	0.580000	3276	0.33%
		MgO	1309-48-4	0.850000	4800	0.48%
		W	7440-33-7	5.200000	29367	2.94%
		Co	7440-48-4	0.200000	1129	0.11%
		Mo	7439-98-7	0.160000	904	0.09%
		Ni	7440-02-0	0.790000	4462	0.45%
		Tl	7440-28-0	0.000004	0	0.00%
Au	7440-57-5	0.210000	1186	0.12%		
Cover	123.070863	Al2O3	1344-28-1	109.566588	890272	89.03%
		MnO2	1313-13-9	2.772906	22531	2.25%
		TiO2	13463-67-7	4.174446	33919	3.39%
		MgO	1309-48-4	0.020022	163	0.02%
		SiO2	14808-60-7	3.163335	25703	2.57%
		Fe2O3	1309-37-1	3.373566	27412	2.74%
Glass Seal	17.929139	Pb	7439-92-1	15.106035	842541	84.25%
		ZnO	1314-13-2	0.520572	29035	2.90%
		CaO	1305-78-8	0.1802	10051	1.01%
		CuO	1317-38-0	0.220242	12284	1.23%
		Bi2O3	1304-76-3	1.141254	63654	6.37%
		Na2O	1313-59-3	0.220242	12284	1.23%
		B2O3	1303-86-2	0.540594	30152	3.02%
Blank	5.570000	SiO2	14808-60-7	5.570000	1000000	100.00%
Electrode	0.090000	Cr	7440-47-3	0.020000	222222	22.22%
		Ag	7440-22-4	0.070000	777778	77.78%
Bond	0.820000	Ag	7440-22-4	0.738000	900000	90.00%
		Si	7440-21-3	0.082000	100000	10.00%