


Material Data Declaration Sheet			ECS INC. INTERNATIONAL				
ECS Model	ECS-327KE						
Description	SMD Clock Oscillator						
Total Weight	23.336 mg/pc						
Contact Information	Company	ECS INC. INTERNATIONAL					
	Contact Name	Marty Rosa					
	Address	1105 S. Ridgeview					
		Olathe KS 66062					
Phone Number	913-782-7787						
Component	Weight (mg)	Material	Substance	CAS #	Weight(mg)	Weight(%)	(If Available) (Substance Weight/Total Homogenous Component or Subcomponent Weight*1000000)
METAL CAP	2.2999	Kovar	Fe	7439-89-6	0.89102	3.818	38182
			Ni	7440-02-0	0.66078	2.832	28316
			Co	7440-48-4	0.27071	1.160	11601
			Mn	7439-96-5	0.00414	0.018	177
			Si	7440-21-3	0.00092	0.004	39
			Ag	7440-22-4	0.33990	1.457	14565
ENCLOSURE	17.5002	Ceramic base	Al2O3	1344-28-1	13.35270	57.219	572193
			SiO2	7631-86-9	0.64920	2.782	27820
			CaO	1305-78-8	0.09100	0.390	3900
			MgO	1309-48-4	0.09100	0.390	3900
			Cr2O3	1308-38-9	0.09975	0.427	4275
			Mo	7439-98-7	0.19950	0.855	8549
			Au	7440-57-5	0.09975	0.427	4275
			Ni	7440-02-0	0.71750	3.075	30746
			Co	7440-48-4	0.18375	0.787	7874
			W	7440-33-7	2.01600	8.639	86390
IC	3.1000	IC	Au	7440-57-5	2.60000	11.142	111416
			Si	7440-21-3	0.49835	2.136	21355
			Al	7429-90-5	0.00165	0.007	71
CRYSTAL BLANK	0.4000	Crystal	SiO2	14808-60-7	0.40000	1.714	17141
ELECTRODE	0.0060		Ti	7440-32-6	0.00014	0.001	6
			Pd	7440-05-3	0.00285	0.012	122
			Au	7440-57-5	0.00285	0.012	122
			Ni	7440-02-0	0.00014	0.001	6
CONDUCTIVE	0.0300	Si resin	Si	7440-21-3	0.00600	0.026	257
		Silver powder	Ag	7440-22-4	0.02400	0.103	1028