

### Material Data Declaration Sheet

ECS Model Number	ECS-2200X Series	
Product Description	Half Size OSC	
Product Revision		
Product Total Weight	1.945g/pcs	
Contact Information	Company	ECS Inc., International
	Contact Name	AJ Anderson
	Address	1105 S. Ridgeview, Olathe, Ks 66062
	Phone Number	913-782-7787



Homogenous Component/Subcomponent	Homogenous Component/Subcomponent Weight (g)	Substance	CAS number	Substance Weight (g)	PPM Level (If Available) (Substance Weight/Total Homogenous Component or Subcomponent Weight*1000000)	PPM Level Availability Date (If Not Available)	Purpose/Location
COVER	0.5200	Zn	7440-66-6	0.126100	64833		Ceramic
		Fe	7439-89-6	0.001300	668		Ceramic
		Cu	7440-50-8	0.343200	176452		Ceramic
		Ni	7440-02-0	0.049400	25398		Ceramic
BASE	1.112	Fe	7439-89-6	1.07683068	553640		Base
		C	7440-44-0	0.000300107	154		Base
		Si	7440-21-3	0.000107181	55		Base
		Mn	7439-96-5	0.002572344	1323		Base
		S	7704-34-9	0.000107181	55		Base
		Fe	7439-89-6	0.005992274	3081		Wire
		Ni	7440-02-0	0.003306168	1700		Wire
		Co	7440-48-4	0.001933392	994		Wire
		Fe	7439-89-6	0.007145044	3674		Silver Wire
		Ni	7440-02-0	0.003942195	2027		Silver Wire
		Co	7440-48-4	0.00230533	1185		Silver Wire
		SiO2	14808-60-7	0.00917	4715		Glass
		B2O3	1303-86-2	0.00131	674		Glass
		Al2O3	1344-28-1	0.000917	471		Glass
		Li	7439-93-2	0.000262	135		Glass
		Na2O	12401-86-4	0.001048	539		Glass
		K2O	12136-45-7	0.000393	202		Glass
		Sn	7440-31-5	0.002275519	1170		Solder
		Ag	7440-22-4	0.0000708	36		Solder
		Cu	7440-50-8	0.0000118	6		Solder
Blank	0.015	Silica SiO2	14808-60-7	0.015	7712.1		Quartz crystal
Silver	0.041	Silver Ag	7440-22-4	0.04099721	21078.3		Electrode
		Copper Cu	7440-50-8	0.00000279	1.4		Electrode
Epoxy	0.005	Silver Ag	7440-22-4	0.00425	2185.1		Connect
		Silicone Resin	68037-90-1	0.00075	385.6		Support
Ceramic PCB	0.161	Al2O3	1344-28-1	0.1608068	82677.0		
		SiO2	14808-60-7	0.0000483	24.8		
		Fe2O3	1309-37-1	0.0000966	49.7		
		Na2O	12401-86-4	0.0000483	24.8		
Chip IC	0.075	Silicon	7440-21-3	0.013275	6825.2		
		Silica SiO2	14808-60-7	0.0423	21748.1		
		Copper Cu	7440-50-8	0.019425	9987.1		
Solder Bar	0.008	Sn	7440-31-5	0.00772	3969.2		
		Ag	7440-22-4	0.00024	123.4		
		Cu	7440-50-8	0.00004	20.6		