

# Material Data Declaration Sheet

ECS Part Number	ECS-P143X/ECS-P145X Series	
Product Description	Full Size Programmable OSC	
Product Revision		
Product Total Weight	3.616g/pcs	
Contact Information	Company	ECS INC. INTERNATIONAL
	Contact Name	AJ Anderson
	Address	1105 S. Ridgeview Olathe, KS 66062
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Homogenous Component/Subcomponent	Homogenous Component/Subcomponent Weight (g)	Substance	CAS #	Substance Weight (g)	PPM Level (If Available) (Substance Weight/Total Homogenous Component or Subcomponent Weight*1000000)	Purpose/Location
COVER	0.8410	Si	7440-21-3	0.0038000	1051	Cover
		Mn	7439-96-5	0.0074400	2058	Cover
		Ni	7440-02-0	0.0714000	19746	Cover
		Co	7440-48-4	0.0880500	24350	Cover
		Fe	7439-89-6	0.6703100	185373	Cover
BASE	2.317	Fe	7439-89-6	2.2652480	626451	Base
		C	7440-44-0	0.0006362	176	Base
		Si	7440-21-3	0.0002272	63	Base
		Mn	7439-96-5	0.0054528	1508	Base
		P	7723-14-0	0.0003181	88	Base
		S	7704-34-9	0.0002272	63	Base
		Fe	7439-89-6	0.0059923	1657	Wire
		Ni	7440-02-0	0.0033062	914	Wire
		Co	7440-48-4	0.0019334	535	Wire
		Fe	7439-89-6	0.0072247	1998	Silver Wire
		Ni	7440-02-0	0.0039862	1102	Silver Wire
		Co	7440-48-4	0.0023310	645	Silver Wire
		SiO2	14808-60-7	0.0113400	3136	Glass
		B2O3	1303-86-2	0.0016200	448	Glass
		Al2O3	1344-28-1	0.0011340	314	Glass
		Li	7439-93-2	0.0003240	90	Glass
		Na2O	12401-86-4	0.0012960	358	Glass
		K2O	12136-45-7	0.0004860	134	Glass
		Sn	7440-31-5	0.0037797	1045	Solder
		Ag	7440-22-4	0.0001176	33	Solder
		Cu	7440-50-8	0.0000196	5	Solder
Blank	0.015	Silica SiO2	14808-60-7	0.0150000	4148	Quartz crystal
Silver	0.041	Silver Ag	7440-22-4	0.0409972	11338	Electrode
		Copper Cu	7440-50-8	0.0000028	1	Electrode
Epoxy	0.005	Silver Ag	7440-22-4	0.0042500	1175	Connect
		Silicone Resin	7440-21-3	0.0007500	207	Support
Ceramic PCB	0.306	Al2O3	66997-17-3	0.3136327	86735	
		SiO2	14808-60-7	0.0000918	25	
		Fe2O3	7439-89-6	0.0001836	51	
		Na2O	12401-86-4	0.0000918	25	
Chip IC	0.075	Silicon	7440-21-3	0.0132750	3671	
		Silica SiO2	14808-60-7	0.0423000	11698	
		Copper Cu	7440-50-8	0.0194250	5372	
Solder Bar	0.008	Sn	7440-31-5	0.0077200	2135	
		Ag	7440-22-4	0.0002400	66	
		Cu	7440-50-8	0.0000400	11	