

# Material Data Declaration Sheet

**ECS INC. INTERNATIONAL**

Supplier Part Number	ECS-2018 Series	
Product Description	2x2.5 SMD Oscillator	
Product Revision		
Product Total Weight	17.3336mg/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 (mg)	Substance	CAS number	Substance Weight (mg)	PPM Level (If Available) (Substance Weight/Total Homogenous Component or Subcomponent Weight*1000000)	Purpose/Location
OSC PKG	12.9643	Alumina-Al <sub>2</sub> O <sub>3</sub>	1344-28-1	7.7164	445170	Ceramic
		Silicon dioxide SiO <sub>2</sub>	7631-86-9	0.3795	21894	Ceramic
		Molybdenum-Mo	7439-98-7	0.1084	6254	Ceramic
		Chromium oxide-Cr <sub>2</sub> O <sub>3</sub>	1308-38-9	0.0542	3127	Ceramic
		Tungsten-W	7440-33-7	1.6900	97499	Electric conductor
		Molybdenum-Mo	7439-98-7	0.0158	912	Electric conductor
		Silver-Ag	7440-22-4	0.5200	30000	Brazing material
		Copper-Cu	7440-50-8	0.0900	5192	Brazing material
		Iron-Fe	7439-89-6	0.8600	49615	Kovar ring
		Nickel-Ni	7440-02-0	0.6200	35769	Kovar ring
		Cobalt-Co	7440-48-4	0.3300	19038	Kovar ring
		Nickel-Ni	7440-02-0	0.3950	22788	Ni plating
		Gold-Au	7440-57-5	0.1850	10673	Au plating
LID	2.0800	Iron	7439-89-6	1.0300	59422	Alloy
		Nickel	7440-02-0	0.5600	32307	Alloy
		Cobalt	7440-48-4	0.3300	19038	Alloy
		Nickel	7440-02-0	0.1600	9231	Alloy
Blank	0.1156	Silica SiO <sub>2</sub>	14808-60-7	0.1156	6669	Quartz crystal
Silver	0.0091	Silver Ag	7440-22-4	0.0090	519	Electrode
		Chromium Cr	7440-47-3	0.0001	6	Electrode
Epoxy	0.0220	Silver Ag	7440-22-4	0.0200	1154	Connect
		Silicone Si	7440-21-3	0.0020	115	Support
Gold Wire	1.6400	Gold-Au	7440-57-5	1.6400	94614	Connect
IC	0.5026	Silicon Si	7440-21-3	0.4990	28788	
		Aluminium	7429-90-5	0.0036	208	