

**Material Data Declaration Sheet**

**ECS INC. INTERNATIONAL**

Supplier Part Number	ECS-327ATQ2016MV
Product Description	2.0x1.6mm 32.768kHz Multi-Volt AEC-Q200 SMD Oscillator
Product Revision	
Product Total Weight	8.8515mg/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)	(If Available) (Substance Weight/Total Homogenous Component or Subcomponent Weight*1000000)	Purpose/Location
OSC PKG	7.1480	Alumina-Al <sub>2</sub> O <sub>3</sub>	1344-28-1	4.1730	583800	Ceramic
		Silicon dioxide SiO <sub>2</sub>	14808-60-7	0.1460	20425	Ceramic
		Molybdenum-Mo	7439-98-7	0.8420	117795	Ceramic
		Manganese Oxide-Mn <sub>2</sub> O <sub>3</sub>	1317-34-6	0.1540	21544	Ceramic
		Magnesium Oxide-MgO	1309-48-4	0.0130	1819	Electric conductor
		Molybdenum Oxide-MoO <sub>3</sub>	1313-27-5	0.0220	3078	Electric conductor
		Silver-Ag	7440-22-4	0.3680	51483	Brazing material
		Copper-Cu	7440-50-8	0.0650	9093	Brazing material
		Iron-Fe	7439-89-6	0.5650	79043	Kovar ring
		Nickel-Ni	7440-02-0	0.5030	70369	Kovar ring
		Cobalt-Co	7440-48-4	0.2280	31897	Kovar ring
Gold-Au	7440-57-5	0.0690	9653	Au plating		
LID	1.3620	Iron-Fe	7439-89-6	0.6230	457416	Alloy
		Nickel-Ni	7440-02-0	0.5360	393539	Alloy
		Cobalt-Co	7440-48-4	0.1980	145374	Alloy
		Manganese-Mn	7439-96-5	0.0050	3671	Alloy
Blank	0.1500	Silica-SiO <sub>2</sub>	14808-60-7	0.1500	1000000	Quartz crystal
Epoxy	0.0020	Silver-Ag	7440-22-4	0.0010	500000	Connect
		Silicone-Si	7440-21-3	0.0010	500000	Support
Gold Wire	0.0310	Gold-Au	7440-57-5	0.0310	1000000	Connect
IC	0.1585	Silicon-Si	7440-21-3	0.15787	996025	
		Aluminium-Al	7429-90-5	0.0006	3981	