

Material Data Declaration Sheet

ECS INC. INTERNATIONAL

ECS Model	ECS-327TXO-2012 Series	
Product Description	2.0x1.2mm SMD Tuning Fork TCXO Oscillator	
Product Total Weight	10.4858mg/pcs	
Contact Information	Company	ECS INC. INTERNATIONAL
	Contact Name	AJ Anderson
	Address	15351 W. 109th Street Lenexa, KS 66219
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Name of Part	Homogenous Component	Homogenous Component (mg)	Substance	CAS number	Substance Weight (mg)	PPM Level	
Quartz Crystal	Base	3.9160	Al ₂ O ₃	1344-28-1	1.2797488	326800	
			Mn ₂ O ₃	1317-34-6	0.0469920	12000	
			SiO ₂	14808-60-7	0.0450340	11500	
			MoO ₃	1313-27-5	0.0070488	1800	
			MgO	1309-48-4	0.0039160	1000	
			Mo	7439-98-7	0.5701696	145600	
			Ag	7440-22-4	0.4002152	102200	
			Cu	7440-50-8	0.0708796	18100	
			Fe	7439-89-6	0.7698856	196600	
			Co	7440-48-4	0.2478828	63300	
			Ni	7440-02-0	0.4530812	115700	
			Au	7440-57-5	0.0211464	5400	
			Lid	Lid	1.1040	Fe	7439-89-6
	Co	7440-48-4				0.1700160	154000
	Mn	7439-96-5				0.0039744	3600
	Ni	7440-02-0				0.4100256	371400
	Blank	Blank	0.0830	SiO ₂	14808-60-7	0.0830000	1000000
				Electrode	Electrode	0.0019	Cr
	Au	7440-57-5	0.0017670	930000			
	Conductive Adhesive	Conductive Adhesive	0.0429	Ag	7440-22-4	0.0360360	840000
Silicone Resin				67763-03-5	0.0068640	160000	
Lid	FeNiCo Alloy	1.0750	Fe	7439-89-6	0.5375000	500000	
			Ni	7440-02-0	0.3655000	340000	
			Co	7440-48-4	0.1720000	160000	
IC	Si	0.1200	Si	7440-21-3	0.1188000	990000	
			W	7440-33-7	0.0012000	10000	
Bonding Wire	Au	0.0010	Au	7440-57-5	0.0010000	1000000	
Base	Ceramic	4.1420	Al ₂ O ₃	1344-28-1	3.1889258	769900	
			SiO ₂	7631-86-9	0.1271594	30700	
			CaO	1305-78-8	0.0120118	2900	
			MgO	1309-48-4	0.0178106	4300	
			Cr ₂ O ₃	1308-38-9	0.1358576	32800	
			TiO ₂	13463-67-7	0.0352070	8500	
			W	7440-33-7	0.5049098	121900	
			Mo	7439-98-7	0.0161538	3900	
			Co	7440-48-4	0.0161538	3900	
			Ni	7440-02-0	0.0650294	15700	
			Au	7440-57-5	0.0227810	5500	