


# Material Data Declaration Sheet

# ECS INC. INTERNATIONAL

Supplier Part Number	VC-TXO-23SM Series					
Product Description	3.2 x 2.5 mm SMD VC-TCXO					
Product Revision						
Product Total Weight	25.1031738 mg/pcs					
Contact Information	Company	ECS INC. INTERNATIONAL				
	Contact Name	AJ Anderson				
	Address	15351 W. 109th Street Lenexa, KS 66219				
	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
Base	19.89000	Al <sub>2</sub> O <sub>3</sub>	1344-28-1	12.530700	499168	Ceramic
		SiO <sub>2</sub>	7631-86-9	0.293709	11700	Ceramic
		CaO	1305-78-8	0.293709	11700	Ceramic
		MgO	1309-48-4	0.293709	11700	Ceramic
		Cr <sub>2</sub> O <sub>3</sub>	1308-38-9	0.487305	19412	Ceramic
		W	7440-33-7	1.784133	71072	Metalization
		Mo	7439-98-7	0.091494	3645	Metalization
		Fe	7439-89-6	1.611090	64179	Kovar Ring
		Ni	7440-02-0	0.871182	34704	Kovar Ring
		Co	7440-48-4	0.507195	20204	Kovar Ring
		Ag	7440-50-8	0.588744	23453	Silver Solder
		Cu	7440-50-8	0.101439	4041	Silver Solder
		Ni	7440-02-0	0.242658	9666	Ni Co Plating
		Co	7440-48-4	0.081549	3249	Ni Co Plating
		Au	7440-57-5	0.111384	4437	Au Plating
LID	3.98000	Fe	7439-89-6	1.960000	78078	Kovar
		Ni	7440-02-0	1.070000	42624	Kovar
		Co	7440-48-4	0.620000	24698	Kovar
		Mn	7439-96-5	0.020000	797	Kovar
		Si	7440-21-3	0.010000	398	Kovar
		C	1333-86-4	0.020000	797	Kovar
		Ni	7440-02-0	0.280000	11154	Plating
		SiO <sub>2</sub>	14808-60-7	0.3102456	12359	Quartz Crystal
Electro conductive Adhesive	0.0663873	Ag	7440-22-4	0.0499548	1990	Adhesive
		Si	7440-21-3	0.0164325	655	Adhesive
IC	0.7985409	Si	7440-21-3	0.7914385	31527	IC
		Al	7429-90-5	0.0025082	100	IC
		Au	7440-57-5	0.0044994	179	IC
		Cu	7440-50-8	0.0000425	2	IC
		W	7440-33-7	0.0000001	0	IC
		Ca	7440-70-2	0.0000085	0	IC
		Mg	7439-95-4	0.0000027	0	IC
		Ag	7440-22-4	0.0000005	0	IC
		Fe	7439-89-6	0.0000405	2	IC
Evaporation	0.05800	Cr	7440-47-3	0.001000	40	
		Au	7440-57-5	0.057000	2271	