

**Material Data Declaration Sheet**

**ECS INC. INTERNATIONAL**

Supplier Part Number	ECS-TXO-20CSMV4 Series	
Product Description	2.0x1.6mm 4-Pad SMD Clipped Sine Wave Multi-Volt TCXO Analog Compensation	
Product Revision		
Product Total Weight	8.29997 mg/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)	PPM Level (If Available) (Substance Weight/Total Homogenous Component or Subcomponent Weight*1000000)	Purpose/Location
Ceramic Base	5.725290	Al <sub>2</sub> O <sub>3</sub>	1344-28-1	3.068760	536001	Ceramic
		SiO <sub>2</sub>	14808-60-7	0.103030	17996	Ceramic
		TiO <sub>2</sub>	13463-67-7	0.018920	3305	Ceramic
		MgO	1309-48-4	0.017750	3100	Ceramic
		CaO	1305-78-8	0.018340	3203	Ceramic
		Cr <sub>2</sub> O <sub>3</sub>	1308-38-9	0.184340	32197	Ceramic
		W	7440-33-7	0.897730	156801	Electric Conductor
		Mo	7439-98-7	0.028060	4901	Electric Conductor
		Ag	7440-22-4	0.206110	36000	Brazing Material
		Cu	7440-50-8	0.080150	13999	Brazing Material
		Fe	7439-89-6	0.488940	85400	Kovar Ring & Plating
		Ni	7440-02-0	0.380150	66398	Kovar Ring & Plating
		Co	7440-48-4	0.204370	35696	Kovar Ring & Plating
Au	7440-57-5	0.028640	5002	Au Plating		
LID	1.808840	Fe	7439-89-6	0.925770	511803	Kovar
		Ni	7440-02-0	0.542660	300004	Kovar
		Co	7440-48-4	0.325590	179999	Kovar
		Mn	7439-96-5	0.009040	4998	Kovar
		Si	7440-21-3	0.005420	2996	Kovar
		C	7440-44-0	0.000360	199	Kovar
Crystal Blank	0.334530	SiO <sub>2</sub>	14808-60-7	0.334530	1000000	Quartz Crystal
IC	0.427760	Si	7440-21-3	0.113360	265008	Wafer
		Al	7429-90-5	0.000230	538	Wafer
		Cu	7440-50-8	0.000230	538	Wafer
		Ge	7440-56-4	0.000230	538	Wafer
		Ti	7440-32-6	0.000110	257	Wafer
		W	7440-33-7	0.000230	538	Wafer
		Epoxy Resin	25068-38-6	0.156980	366981	D/B Adhesive
		N-Butoxy glycidyl ether 3-(3,4-Dichlorophenyl)-	2426-08-6	0.010830	25318	D/B Adhesive
		1,1-Dimethyl-urea	330-54-1	0.021650	50612	D/B Adhesive
		Aluminum Hydroxide	21645-51-2	0.081200	189826	D/B Adhesive
Conductive Adhesive	0.000110	Au	7440-57-5	0.042710	99846	Au Wire
		Ag	7440-22-4	0.000090	818182	Adhesive
		SiO <sub>2</sub>	7631-86-9	0.000010	90909	Adhesive
		Dodecane	7440-02-0	0.000010	90909	Adhesive
Electrode	0.003440	Ag	7440-22-4	0.003440	1000000	Electrode