

# Material Data Declaration Sheet

**ECS INC. INTERNATIONAL**

Supplier Part Number	ECS-TXO-2016
Product Description	2.0x1.6mm SMD CMOS TCXO
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	369731	Ceramic
		SiO <sub>2</sub>	14808-60-7	0.103030	12413	Ceramic
		TiO <sub>2</sub>	13463-67-7	0.018920	2280	Ceramic
		MgO	1309-48-4	0.017750	2139	Ceramic
		CaO	1305-78-8	0.018340	2210	Ceramic
		Cr <sub>2</sub> O <sub>3</sub>	1308-38-9	0.184340	22210	Ceramic
		W	7440-33-7	0.897730	108161	Electric Conductor
		Mo	7439-98-7	0.028060	3381	Electric Conductor
		Ag	7440-22-4	0.206110	24833	Brazing Material
		Cu	7440-50-8	0.080150	9657	Brazing Material
		Fe	7439-89-6	0.488940	58909	Kovar Ring & Plating
		Ni	7440-02-0	0.380150	45801	Kovar Ring & Plating
		Co	7440-48-4	0.204370	24623	Kovar Ring & Plating
		Au	7440-57-5	0.028640	3451	Au Plating
LID	1.808840	Fe	7439-89-6	0.925770	111539	Kovar
		Ni	7440-02-0	0.542660	65381	Kovar
		Co	7440-48-4	0.325590	39228	Kovar
		Mn	7439-96-5	0.009040	1089	Kovar
		Si	7440-21-3	0.005420	653	Kovar
		C	7440-44-0	0.000360	43	Kovar
Crystal Blank	0.334530	SiO <sub>2</sub>	14808-60-7	0.334530	40305	Quartz Crystal
IC	0.427760	Si	7440-21-3	0.113360	13658	Wafer
		Al	7429-90-5	0.000230	28	Wafer
		Cu	7440-50-8	0.000230	28	Wafer
		Ge	7440-56-4	0.000230	28	Wafer
		Ti	7440-32-6	0.000110	13	Wafer
		W	7440-33-7	0.000230	28	Wafer
		Epoxy Resin	25068-38-6	0.156980	18913	D/B Adhesive
		N-Butoxy glycidyl ether 3-(3,4-Dichlorophenyl) - 1,1-Dimethyl-urea	2426-08-6	0.010830	1305	D/B Adhesive
		Aluminum Hydroxide	21645-51-2	0.081200	9783	D/B Adhesive
		Au	7440-57-5	0.042710	5146	Au Wire
		Conductive Adhesive	0.000110	Ag	7440-22-4	0.000090
SiO <sub>2</sub>	7631-86-9			0.000010	1	Adhesive
Dodecane	7440-02-0			0.000010	1	Adhesive
Electrode	0.003440	Ag	7440-22-4	0.003440	414	Electrode