

Materials Declaration

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Product Family : Ceramic 3.2x2.5mm TCXO (FOX923 type)

	Material Name	Component	Content (mg)	Content (w t %)	(CAS #)		
Cover	Kovar	Nickel (Ni)	1.554	4.97%	7440-02-0		
		Cobalt (Co)	0.717	2.29%	7440-48-4		
		Iron (Fe)	3.357	10.74%	7439-89-6		
		Manganese (Mn)	0.011	0.04%	7439-96-5		
		Silicon (Si)	0.003	0.01%	7440-21-3		
	Metallization	Tin (Sn)	0.305	0.976%	7440-31-5		
		Gold (Au)	1.222	3.9089%	7440-57-5		
Crystal Base	Ceramic	Alumina (Al ₂ O ₃)	7.170	22.9%	1344-28-1		
		Silicon Dioxide (SiO ₂)	0.240	0.77%	14808-60-7		
		Chromium Oxide (Cr ₂ O ₃)	0.040	0.13%	1308-38-9		
		Titanium Oxide (TiO ₂)	0.040	0.13%	13463-67-7		
		Calcium Oxide (CaO)	0.040	0.13%	1305-78-8		
		Cobalt (Co)	0.040	0.13%	7440-48-4		
		Magnesium Oxide (MgO)	0.040	0.128%	1309-48-4		
		Metallization	Tungsten (W)	1.000	3.20%	7440-33-7	
	Nickel (Ni)		0.100	0.32%	7440-02-0		
	Molybdenum (Mo)		0.030	0.10%	7439-98-7		
	Gold (Au)		0.110	0.352%	7440-57-5		
	H/I C		I C	Aluminum (Al)	0.002500	0.00800%	7429-90-5
				Copper (Cu)	0.000042	0.000134%	7439-98-7
		Silicon (Si)		0.787000	2.52%	7440-21-3	
Phosphorus (P)		0.000003		0.000%	7723-14-0		
Arsenic (As)		0.000007		0.000022%	7440-38-2		
Solder		Tin (Sn)	0.475	1.5194335%	7440-31-5		
		Antimony (Sb)	0.025	0.0799702%	7440-36-0		
Gold Bump		Gold (Au)	0.070	0.2239165%	7440-57-5		
Ceramic Base		Alumina (Al ₂ O ₃)	10.070	32.2119893%	1344-28-1		
		Silicon Dioxide (SiO ₂)	0.340	1.0875945%	14808-60-7		
		Titanium Oxide (TiO ₂)	0.060	0.1919284%	13463-67-7		
	Calcium Oxide (CaO)	0.060	0.1919284%	1305-78-8			
	Cobalt (Co)	0.110	0.3518688%	7440-48-4			
	Magnesium Oxide (MgO)	0.060	0.1919284%	1309-48-4			
	Chromium Oxide (Cr ₂ O ₃)	0.590	1.8872963%	1308-38-9			
	Metallization	Tungsten (W)	1.170	3.7426045%	7440-33-7		
Nickel (Ni)		0.270	0.8636780%	7440-02-0			
Gold (Au)		0.330	1.0556064%	7440-57-5			
Molybdenum (Mo)		0.040	0.1279523%	7439-98-7			
Sealing Resin	Epoxy resin	0.150	0.479821%	64425-89-4			
	Silica	0.150	0.479821%	60676-86-0			
Crystal	Crystal	Silicon Dioxide (SiO ₂)	0.450	1.44%	14808-60-7		
	Electrode	Chromium (Cr)	0.0001	0.0003%	7440-47-3		
		Gold (Au)	0.007	0.022392%	7440-57-5		
	Adhesive	Silver (Ag)	0.022	0.070374%	7440-22-4		
		Silicon Resin	0.004	0.012795%	7440-21-3		
TOTAL			31.26165	100.00%			