

Materials Declaration

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Completed by Bruce Clark
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Product Family : 9.6x11.4mm TCXO (FOX801 Series)

		Component	Content (mg)	Content (w t %)	(CAS Number)	
Cover		Nickel (Ni)	42.000	9.62%	7440-02-0	
		Copper (Cu)	126.10	28.88%	7440-50-8	
		Zinc (Zn)	52.50	12.024%	7440-66-6	
Substrate	Resist Ink	Resin	9.640	2.2%		
		Board	BT Resin	19.000	4.35%	
		Glass Fiber (SiO ₂)	38.000	8.70%	7631-86-9	
	Pattern	Copper (Cu)	38.000	8.703%	7440-50-8	
		Nickel (Ni)	0.500	0.11%	7440-02-0	
		Gold (Au)	0.100	0.02%	7440-57-5	
Transistor	Resin Package	Silicon Compound	2.130	0.488%		
		Antimony Trioxide (Sb ₂ O ₃)	0.033	0.01%	1309-64-4	
		Epoxy Resin	0.106	0.02%		
		Colorant	0.015	0.003%		
		Cure accelerator	0.015	0.003%		
		Other	0.743	0.170%		
	Leadframe	Iron (Fe)	1.104	0.253%	7439-89-6	
		Nickel (Ni)	0.782	0.179%	7440-02-0	
		Copper (Cu)	0.252	0.058%	7440-50-8	
		Other	0.022	0.005%		
	Termination Coating	Tin (Sn)	0.247	0.057%	7440-31-5	
		Lead (Pb)	0.0275	0.006%	7439-92-1	
	Transistor Element	Silicon (Si)	0.096	0.022%	7440-21-3	
		Gold (Au)	0.010	0.002%	7440-57-5	
	Wire	Gold (Au)	0.021	0.005%	7440-57-5	
	Thermistor		Manganese Oxide (Mn ₃ O ₄)	0.640	0.147%	1317-35-7
			Cobalt Oxide (Co ₃ O ₄)	1.010	0.231%	1308-06-1
			Lead Oxide (PbO)	0.162	0.037%	1317-36-8
		Silicon Dioxide (SiO ₂)	0.096	0.022%	7631-86-9	
		Chromium Oxide (Cr ₂ O ₃)	0.016	0.004%	1308-38-9	
		Boron Oxide (B ₂ O ₃)	0.006	0.001%	1303-86-2	
		Nickel (Ni)	0.476	0.109%	7440-22-4	
		Palladium (Pd)	0.030	0.007%	7440-05-3	
		Tin (Sn)	0.364	0.083%	7440-31-5	
Capacitor		Tin (Sn)	0.185	0.042369%	7440-31-5	
		Nickel (Ni)	0.185	0.042369%	7440-02-0	
		Silver (Ag)	1.780	0.407663%	7440-22-4	
		Titanium Oxide (TiO ₂)	16.200	3.710189%	13463-67-7	
		Palladium (Pd)	4.880	1.118%	7440-05-3	
Reflow Solder		Tin (Sn)	19.300	4.420164%	7440-31-5	
		Silver (Ag)	0.600	0.137414%	7440-22-4	
		Copper (Cu)	0.100	0.022902%	7440-50-8	

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FOX801 Materials Continued

Resistor	Alumina Substrate	Aluminum Oxide (Al ₂ O ₃)	3.1400	0.719135%	1344-28-1	
		Silicon Dioxide (SiO ₂)	0.0972	0.022261%	14808-60-7	
	Electrode Paste	Boron Oxide (B ₂ O ₃)	0.00030	0.000069%	1303-86-2	
		Titanium Oxide (TiO ₂)	0.00030	0.000069%	13463-67-7	
		Lead Oxide (PbO)	0.005	0.001237%	1317-36-8	
		Silver (Ag)	0.0468	0.010718%	7440-22-4	
		Palladium (Pd)	0.0036	0.000824%	7440-50-3	
		Silicon Dioxide (SiO ₂)	0.0036	0.000824%	7631-86-9	
		Resistor Paste	Ruthenium Oxide (RuO ₂)	0.0132	0.003023%	1344-28-1
	Lead Oxide (PbO)		0.0258	0.005909%	1317-36-8	
	Silicon Dioxide (SiO ₂)		0.0138	0.003161%	7631-86-9	
	Boron Oxide (B ₂ O ₃)		0.0054	0.001237%	1303-86-2	
	Aluminum Oxide (Al ₂ O ₃)		0.0012	0.000275%	1344-28-1	
	Protection Glass	Lead Oxide (PbO)	0.0330	0.007558%	1317-36-8	
		Silicon Dioxide (SiO ₂)	0.0180	0.004122%	7631-86-9	
		Boron Oxide (B ₂ O ₃)	0.0066	0.00151%	1303-86-2	
		Aluminum Oxide (Al ₂ O ₃)	0.0024	0.000550%	1344-28-1	
	Plating	Nickel (Ni)	0.0857	0.02%	7440-02-0	
		Tin (Sn)	0.0857	0.020%	7440-31-5	
	Crystal	Cover	Iron (Fe)	5.840	1.337500%	7439-89-6
Nickel (Ni)			3.080	0.705394%	7440-02-0	
Cobalt (Co)			1.700	0.389341%	7440-48-4	
Base		Aluminum Oxide (Al ₂ O ₃)	28.200	6.458478%	1344-28-1	
		Silicon Dioxide (SiO ₂)	1.120	0.256507%	14808-60-7	
		Chromium Oxide (Cr ₂ O ₃)	1.200	0.274829%	1308-38-9	
		Titanium Oxide (TiO ₂)	0.311	0.071226%	13463-67-7	
		Tungsten (W)	6.210	1.422239%	7440-33-7	
		Molybdenum (Mo)	0.192	0.043973%	7439-98-7	
		Nickel (Ni)	4.130	0.945869%	7440-02-0	
		Gold (Au)	0.32	0.073288%	7440-57-5	
Crystal Blank		Silicon Dioxide (SiO ₂)	3.270	0.75%	14808-60-7	
Plating		Gold (Au)	0.000	0.0001%	7440-57-5	
		Chromium (Cr)	0.000005	0.000001%	7440-47-3	
Adhesive		Silver (Ag)	0.00037	0.000085%	7440-22-4	
		Silicon (Si)	0.000125	0.000029%	7440-21-3	
TOTAL			436.6	100.00%		