

## Materials Declaration

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**Completed by Bruce Clark**

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**Product Family : FSOLF Oscillator**

	Material Name	Component	Content (mg)	Content ( w t % )	(CAS Number)	
Cover		Nickel (Ni)	25.545	2.277%	7440-02-0	
		Copper (Cu)	86.460	7.705%	7440-50-8	
		Iron (Fe)	0.3275	0.029%	7439-89-6	
		Manganese (Mn)	0.655	0.058%	7439-96-5	
		Zinc (Zn)	18.013	1.605%	7440-66-6	
Base	SPCC + Kovar + solder	Iron (Fe)	223.5230	19.920%	7439-89-6	
		Nickel (Ni)	5.6150	0.500%	7440-02-0	
		Silicon (Si)	0.0224	0.002%	7440-33-7	
		Carbon C	0.0627	0.006%	7440-44-0	
		Manganese (Mn)	0.53808	0.048%	7439-96-5	
		Sulfur	0.02242	0.002%	7704-34-9	
		Phosphorus (P)	0.031388	0.003%	7723-14-0	
		Tin (Sn)	2.0000	0.178%	7440-31-5	
		Silver (Ag)	0.4000	0.036%	7440-22-4	
		Lead (Pb)	17.6000	1.568%	7439-92-1	
	C7701-R Crystal mount		Copper (Cu)	0.0054	0.00048%	7440-50-8
			Nickel (Ni)	4.0440	0.360%	7440-02-0
			Cobalt (Co)	2.3650	0.211%	7440-48-4
			Manganese (Mn)	0.0345	0.003%	7439-96-5
			Iron (Fe)	7.3300	0.653%	7439-89-6
			Glass frits	10.0000	0.891%	65997-18-4
	+ glass					
Crystal	Crystal	Silicon Dioxide (SiO <sub>2</sub> )	7.2000	0.642%	14808-60-7	
		Electrode	Silver (Ag)	0.9990	0.089%	7440-22-4
	Adhesive	Silver (Ag)	10.5000	0.936%	7440-22-4	
		Ethylene glycol monobutyl ether acetate	0.7000	0.062%	112-07-2	
		Diethylene glycol monomethyl ether acetate	0.7000	0.062%	629-38-9	
		Epoxy Resin	2.1000	0.187%		
Leadframe		Copper (Cu)	33.9650	3.027%	7440-50-8	
		Tin (Sn)	0.5940	0.053%	7440-31-5	
		Zinc (Zn)	0.0050	0.00045%	7440-66-6	
		Iron (Fe)	0.0050	0.00045%	7439-89-6	
		Phosphorus (P)	0.8000	0.071%	7723-14-0	
		Silver (Ag)	0.1362	0.012%	7440-22-4	
IC		Silicon (Si)	0.9970	0.089%	7440-21-3	
		Molybdenum (Mo)	0.0003	0.00002%	7439-98-7	
		Aluminum (Al)	0.0020	0.0002%	7429-90-5	
		Gold (Au)	0.0010	0.0001%	7440-57-5	
Plastic		Silicon Dioxide (SiO <sub>2</sub> )	474.900	42.323%	14464-46-1	
		Epoxy Resin	91.948	8.194%		
		Aldehyde Resin	75.230	6.704%		
		Bromine (Br)	8.358	0.745%	7726-95-6	
		Antimony Trioxide (Sb <sub>2</sub> O <sub>3</sub> )	8.358	0.745%	1309-64-4	
<b>TOTAL</b>			<b>1122.092353</b>	<b>100.000%</b>		