

## Materials Declaration

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**Completed by Bruce Clark**

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**Product Family : F254 - 5x3.2mm SMD Oscillator**

	Material Name	Component	Content (mg)	Content ( w t % )	(CAS Number)
Cover	Kovar	Nickel (Ni)	1.568	5.08%	7440-02-0
		Cobalt (Co)	0.862	2.79%	7440-48-4
		Iron (Fe)	2.836	9.18%	7439-89-6
		Manganese (Mn)	0.013	0.04%	7439-96-5
		Silicon (Si)	0.004	0.01%	7440-21-3
	Nickel Plating	Nickel (Ni)	0.338	1.09%	7440-02-0
	Gold/Tin Plating	Gold (Au)	1.009	3.27%	7440-57-5
Tin (Sn)		0.0276	0.09%	7440-31-5	
Base	Ceramic	Alumina (Al <sub>2</sub> O <sub>3</sub> )	15.980	51.72%	1344-28-1
		Silicon Dioxide (SiO <sub>2</sub> )	0.850	2.75%	7631-86-9
		Chromium Oxide (Cr <sub>2</sub> O <sub>3</sub> )	0.130	0.42%	1308-38-9
		Molybdenum (Mo)	0.160	0.52%	7439-98-7
	Conductor	Tungsten (W)	1.550	5.02%	7440-33-7
		Molybdenum (Mo)	0.050	0.16%	7439-98-7
	Plating	Nickel (Ni)	1.110	3.59%	7440-02-0
	Plating	Gold (Au)	0.510	1.65%	7440-57-5
I C	I C	Aluminum (Al)	0.0036	0.01%	7429-90-5
		Silicon (Si)	0.6910	2.24%	7440-21-3
	Gold	2.6297	8.51%	7440-57-5	
	Adhesive	Silver (Ag)	0.0100	0.03%	7440-22-4
		Solvent	0.0010	0.0032%	
Silicon (Si)	0.0015	0.0049%	7440-21-3		
Crystal	Crystal	Silicon Dioxide (SiO <sub>2</sub> )	0.3570	1.16%	14808-60-7
	Electrode	Titanium (Ti)	0.0200	0.06%	7440-32-6
		Gold (Au)	0.0200	0.06%	7440-57-5
		Palladium (Pd)	0.1500	0.49%	7440-05-3
		Nickel (Ni)	0.0003	0.0010%	7440-02-0
	Adhesive	Silver (Ag)	0.0100	0.03%	7440-22-4
		Solvent	0.0010	0.0032%	
Silicon (Si)	0.0015	0.0049%	7440-21-3		
<b>TOTAL</b>			<b>30.9</b>	<b>100.00%</b>	