

## Materials Declaration

**Company Name : Fox Electronics**  
**Address : 5570 Enterprise Parkway**  
**: Ft Myers FL 33905**  
**Phone : 239-690-2238**  
**Fax : 239-690-3438**  
**E-mail : brucec@foxonline.com**  
**Completed by Bruce Clark**

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**Product Family : 5x7.5mm Ceramic XpressO**

	Material Name	Component	Content (mg)	Content ( wt %)	(CAS Number)
Cover	Kovar	Nickel (Ni)	2.39	1.77%	7440-02-0
		Cobalt (Co)	1.29	0.96%	7440-48-4
		Iron (Fe)	4.07	3.02%	7439-89-6
	Nickel Plating	Nickel (Ni)	0.792	0.59%	7440-02-0
		Phosphorus (P)	0.088	0.07%	7723-14-0
Base	Ceramic	Alumina (Al <sub>2</sub> O <sub>3</sub> )	80.840	60.0%	1344-28-1
		Silicon Oxide (SiO <sub>2</sub> )	3.955	2.93%	7631-86-9
		Chromium Oxide (Cr <sub>2</sub> O <sub>3</sub> )	0.605	0.45%	1308-38-9
		Magnesium Oxide (MgO)	0.532	0.395%	1309-48-4
		Calcium Oxide (CaO)	0.568	0.421%	1305-78-8
	+ Metallization	Tungsten (W)	10.655	7.90%	7440-33-7
		Molybdenum (Mo)	1.162	0.86%	7439-98-7
	+ Nickel Plating	Nickel (Ni)	1.280	0.95%	7440-02-0
		Cobalt (Co)	0.340	0.25%	7440-48-4
	+ Gold Plating	Gold (Au)	0.210	0.156%	7440-57-5
	+ Seal ring	Iron (Fe)	10.520	7.80%	7439-89-6
		Nickel (Ni)	5.740	4.26%	7440-02-0
		Cobalt (Co)	3.310	2.45%	7440-48-4
	+ silver solder	Silver (Ag)	3.290	2.44%	7440-22-4
		Copper (Cu)	0.581	0.431%	7440-50-8
I C	I C	Aluminum (Al)	0.0300	0.02225%	7429-90-5
		Silicon (Si)	0.461	0.34%	7440-21-3
	Gold	0.100	0.074%	7440-57-5	
	Adhesive	Silver (Ag)	0.1700	0.126080%	7440-22-4
		Phenolic Resin	0.0150	0.011125%	
Epoxy Resin	0.0150	0.0111247%			
Crystal	Crystal	Silicon Dioxide (SiO <sub>2</sub> )	1.69	1.25%	14808-60-7
	Electrode	Silver (Ag)	0.0359	0.0266%	7440-22-4
		Chromium (Cr)	0.0006	0.000445%	7440-47-3
	Adhesive	Silver (Ag)	0.08500	0.063040%	7440-22-4
		Silicon (Si)	0.0150	0.011125%	7440-21-3
<b>TOTAL</b>			<b>134.8</b>	<b>100.00%</b>	