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Materials Declaration

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Completed by Bruce Clark

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*Added 6/11/08

Product Family : 6x3.5mm Oscillator Type (F4200 series)

	Material Name	Component	Content (mg)	Content (w t %)	(CAS Number)
Cover	Kovar	Nickel (Ni)	3.07	3.46%	7440-02-0
		Cobalt (Co)	1.80	2.03%	7440-48-4
		Iron (Fe)	5.74	6.47%	7439-89-6
	Plating*	Nickel (Ni)	0.43	0.481%	7440-02-0
Base	Ceramic	Alumina (Al ₂ O ₃)	47.4	53.4%	1344-28-1
		Silicon Dioxide (SiO ₂)	1.88	2.12%	7631-86-9
		Chromium Oxide (Cr ₂ O ₃)	2.02	2.28%	1308-38-9
		Titanium Oxide (TiO ₂)	0.52	0.586%	13463-67-7
	Metallization	Tungsten (W)	7.95	8.96%	7440-33-7
	Nickel Plating	Nickel (Ni)	1.02	1.15%	7440-02-0
		Cobalt (Co)	0.25	0.28%	7440-48-4
	Gold Plating	Gold (Au)	0.360	0.406%	7440-57-5
	Seal ring	Iron (Fe)	6.20	6.99%	7439-89-6
		Nickel (Ni)	3.33	3.75%	7440-02-0
		Cobalt (Co)	2.21	2.49%	7440-48-4
	Silver solder	Silver (Ag)	1.45	1.63%	7440-22-4
		Copper (Cu)	0.260	0.293%	7440-50-8
	I C	I C	Aluminum (Al)	0.0016	0.00180%
Molybdenum (Mo)			0.0003	0.000338%	7439-98-7
Silicon (Si)			0.580	0.65%	7440-21-3
Gold Wire		Gold (Au)	0.287	0.324%	7440-57-5
Adhesive		Silver (Ag)	0.000188	0.000212%	7440-22-4
		Epoxy	0.0000625	0.0000705%	
Crystal	Crystal	Quartz (SiO ₂)	1.92	2.16%	14808-60-7
	Electrode	Silver (Ag)	0.019	0.0214%	7440-22-4
		Nickel (Ni)	0.000159	0.000179%	7440-02-0
	Adhesive	Silver (Ag)	0.00037	0.000417%	7440-22-4
		Silicon (Si)	0.000125	0.000141%	7440-21-3
TOTAL			88.7	100.00%	