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Materials Declaration

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Completed by Bruce Clark

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*Added 6/11/08

Product Family : 3.2x2.5mm Oscillator Type (F3xx Series)

	Material Name	Component	Content (mg)	Content (w t %)	(CAS Number)
Cover	Kovar	Nickel (Ni)	0.928	3.51%	7440-02-0
		Cobalt (Co)	0.540	2.04%	7440-48-4
		Iron (Fe)	1.730	6.55%	7439-89-6
	Plating*	Nickel (Ni)	0.130	0.492%	7440-02-0
Base	Ceramic	Alumina (Al ₂ O ₃)	13.600	51.5%	1344-28-1
		Silicon Dioxide (SiO ₂)	1.000	3.79%	7631-86-9
		Chromium Oxide (Cr ₂ O ₃)	0.500	1.89%	1308-38-9
		Molybdenum (Mo)	0.100	0.379%	7439-98-7
	Metallization	Tungsten (W)	1.700	6.44%	7440-33-7
	Nickel Plating	Nickel (Ni)	0.430	1.63%	7440-02-0
		Cobalt (Co)	0.107	0.41%	7440-48-4
	Gold Plating	Gold (Au)	0.200	0.757%	7440-57-5
	Seal Ring	Iron (Fe)	2.000	7.57%	7439-89-6
		Nickel (Ni)	1.070	4.05%	7440-02-0
		Cobalt (Co)	0.629	2.382%	7440-48-4
	Silver Solder	Silver (Ag)	0.400	1.515%	7440-22-4
		Copper (Cu)	0.100	0.379%	7440-50-8
I C	I C	Aluminum (Al)	0.0010	0.00379%	7429-90-5
		Silicon (Si)	0.489	1.85%	7440-21-3
	Gold Wire	Gold (Au)	0.287	1.087%	7440-57-5
	Adhesive	Silver (Ag)	0.000188	0.000712%	7440-22-4
		Epoxy	0.0000625	0.0002366%	
Crystal	Crystal	Quartz (SiO ₂)	0.460	1.74%	14808-60-7
	Electrode	Silver (Ag)	0.0095	0.0360%	7440-22-4
		Nickel (Ni)	0.000079	0.000299%	7440-02-0
	Adhesive	Silver (Ag)	0.00037	0.001401%	7440-22-4
		Silicon (Si)	0.000125	0.000473%	7440-21-3
TOTAL			26.411	100.00%	