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Materials Declaration

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Completed by Bruce Clark

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*Added 6/11/08

Product Family : FMB - 6x3.5mm Crystal Seam Seal Type

	Material Name	Component	Content (mg)	Content (w t %)	(CAS Number)
Cover	Kovar	Nickel (Ni)	2.625	4.16%	7440-02-0
		Cobalt (Co)	1.539	2.44%	7440-48-4
		Iron (Fe)	4.324	6.85%	7439-89-6
	Plating*	Nickel (Ni)	0.427	0.68%	7440-02-0
Base	Ceramic	Alumina (Al ₂ O ₃)	28.22	44.7%	1344-28-1
		Silicon Dioxide (SiO ₂)	1.12	1.78%	7631-86-9
		Chromium Oxide (Cr ₂ O ₃)	1.20	1.90%	1308-38-9
		Titanium Oxide (TiO ₂)	0.31	0.491%	13463-67-7
	Metallization	Tungsten (W)	6.21	9.84%	7440-33-7
	Nickel Plating	Nickel (Ni)	0.80	1.27%	7440-02-0
		Cobalt (Co)	0.19	0.30%	7440-48-4
	Gold Plating	Gold (Au)	0.28	0.444%	7440-57-5
	Seal Ring	Iron (Fe)	6.20	9.83%	7439-89-6
		Nickel (Ni)	3.33	5.28%	7440-02-0
		Cobalt (Co)	2.15	3.41%	7440-48-4
	Silver solder	Silver (Ag)	1.45	2.30%	7440-22-4
		Copper (Cu)	0.26	0.412%	7440-50-8
Crystal	Crystal	Quartz (SiO ₂)	2.43	3.85%	14808-60-7
	Electrode	Silver (Ag)	0.019	0.0301%	7440-22-4
		Nickel (Ni)	0.000159	0.000252%	7440-02-0
	Adhesive	Silver (Ag)	0.00037	0.000587%	7440-22-4
		Silicon (Si)	0.000125	0.000198%	7440-21-3
TOTAL			63.1	100.00%	