

Materials Declaration

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Completed by Bruce Clark

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Product Family : VCP/FCP/FCL Oscillator Seam Seal Type

	Material Name	Component	Content (mg)	Content (w t %)	(CAS Number)	
Cover	Kovar	Nickel (Ni)	6.94	3.75%	7440-02-0	
		Cobalt (Co)	3.96	2.14%	7440-48-4	
		Iron (Fe)	12.50	6.75%	7439-89-6	
	Electroless Dep	Nickel (Ni)	1.06	0.572%	7440-02-0	
		Phosphorus (P)	0.10	0.0540%	7723-14-0	
Base	Ceramic	Alumina (Al ₂ O ₃)	72.3	39.0%	1344-28-1	
		Silicon Dioxide (SiO ₂)	2.87	1.55%	14808-60-7	
		Chromium Oxide (Cr ₂ O ₃)	3.09	1.67%	1308-38-9	
		Titanium Oxide (TiO ₂)	0.800	0.432%	13463-67-7	
		Calcium Oxide (CaO)	0.270	0.146%	1305-79-9	
		Magnesium Oxide (MgO)	0.400	0.216%	1309-48-4	
		Molybdenum (Mo)	0.430	0.232%	7439-98-7	
		Tungsten (W)	13.84	7.47%	7440-33-7	
		Nickel (Ni)	1.78	0.96%	7440-02-0	
		Gold (Au)	0.620	0.335%	7440-57-5	
	+ Seal ring	Iron (Fe)	26.20	14.15%	7439-89-6	
		Nickel (Ni)	14.80	7.99%	7440-02-0	
		Cobalt (Co)	4.95	2.67%	7440-48-4	
	+ silver solder	Silver (Ag)	11.90	6.43%	7440-22-4	
		Copper (Cu)	3.860	2.084%	7440-50-8	
	H/I C	I C	Aluminum (Al)	0.0010	0.00054%	7429-90-5
			Silicon (Si)	0.999	0.54%	7440-21-3
		Gold	Gold (Au)	0.990	0.535%	7440-57-5
		Adhesive	Silver (Ag)	0.000188	0.000102%	7440-22-4
Epoxy			0.0000625	0.0000337%		
Crystal	Crystal	Silicon Dioxide (SiO ₂)	0.53	0.29%	14808-60-7	
	Electrode	Gold (Au)	0.0004	0.0002%	7440-57-5	
		Nickel (Ni)	0.000005	0.000003%	7440-02-0	
	Adhesive	Silver (Ag)	0.00037	0.000200%	7440-22-4	
		Silicon (Si)	0.000125	0.000067%	7440-21-3	
TOTAL			185.2	100.00%		