

## Materials Declaration

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Product Family : 6.6x11.2mm Oscillator Seam Seal Type (F3160/F3170 Series)

	Material Name	Component	Content (mg)	Content ( w t % )	(CAS Number)	
Cover	Kovar	Nickel (Ni)	12.60	2.70%	7440-02-0	
		Cobalt (Co)	7.38	1.58%	7440-48-4	
		Iron (Fe)	23.40	5.01%	7439-89-6	
	Electroless Dep	Nickel (Ni)	2.00	0.428%	7440-02-0	
		Phosphorus (P)	0.22	0.0471%	7723-14-0	
Base	Ceramic + Seal ring + silver solder	Alumina (Al <sub>2</sub> O <sub>3</sub> )	326.0	69.8%	1344-28-1	
		Silicon Dioxide (SiO <sub>2</sub> )	13.00	2.78%	14808-60-7	
		Chromium Oxide (Cr <sub>2</sub> O <sub>3</sub> )	13.90	2.98%	1308-38-9	
		Titanium Oxide (TiO <sub>2</sub> )	3.600	0.771%	13463-67-7	
		Tungsten (W)	19.90	4.26%	7440-33-7	
		Nickel (Ni)	9.60	2.06%	7440-02-0	
		Gold (Au)	1.030	0.221%	7440-57-5	
		Iron (Fe)	13.10	2.81%	7439-89-6	
		Cobalt (Co)	4.76	1.02%	7440-48-4	
		Silver (Ag)	3.07	0.66%	7440-22-4	
		Copper (Cu)	0.541	0.116%	7440-50-8	
		H/I C	I C	Aluminum (Al)	0.0016	0.00034%
Molybdenum (Mo)	0.0003			0.000064%	7439-98-7	
Silicon (Si)	1.000			0.21%	7440-21-3	
Gold	Gold (Au)		0.287	0.061%	7440-57-5	
	Silver (Ag)		0.000188	0.000040%	7440-22-4	
Adhesive	Epoxy		0.0000625	0.0000134%		
	Chip Cap		Tin (Sn)	0.05	0.0107103%	7440-31-5
Nickel (Ni)			0.05	0.0107103%	7440-02-0	
Silver (Ag)			0.48	0.1028187%	7440-22-4	
Titanium Oxide (TiO <sub>2</sub> )			4.38	0.9382203%	13463-67-7	
Palladium (Pd)			1.32	0.2827513%	7440-05-3	
Non-Conductive Epoxy	Epoxy		0.000075	0.000016%		
	Silicon Dioxide (SiO <sub>2</sub> )		0.000165	0.000035%	14808-60-7	
Conductive Epoxy	Silver (Ag)		0.000216	0.000046%	7440-22-4	
	Epoxy		0.000054	0.000012%		
Crystal	Crystal		Silicon Dioxide (SiO <sub>2</sub> )	5.15	1.10%	14808-60-7
			Electrode	Silver (Ag)	0.020	0.0043%
	Adhesive		Nickel (Ni)	0.000159	0.000034%	7440-02-0
		Silver (Ag)	0.00037	0.000079%	7440-22-4	
		Silicon (Si)	0.000125	0.000027%	7440-21-3	
<b>TOTAL</b>			<b>466.8</b>	<b>100.00%</b>		