

## Materials Declaration

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**Product Family : FQAG - 3.5x6mm Crystal Glass Seal Type**

	Material Name	Component	Content (mg)	Content ( w t % )	(CAS Number)
Cover	Alumina	Alumina (Al <sub>2</sub> O <sub>3</sub> )	19.320	18.94%	1344-28-1
		Silicon Dioxide (SiO <sub>2</sub> )	0.532	0.522%	14808-60-7
		Titanium Oxide (TiO <sub>2</sub> )	0.504	0.494%	13463-67-7
		Sodium Oxide (Na <sub>2</sub> O)	0.028	0.027%	1313-59-3
		Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.532	0.522%	1309-37-1
		Manganese Dioxide (MnO <sub>2</sub> )	0.476	0.467%	1313-13-9
	Seal Glass	Lead Oxide (PbO)	5.096	4.996%	1317-36-8
		Titanium Oxide (TiO <sub>2</sub> )	0.420	0.412%	13463-67-7
		Bismuth Oxide (Bi <sub>2</sub> O <sub>3</sub> )	0.392	0.384%	1304-76-3
		Boron Oxide (B <sub>2</sub> O <sub>3</sub> )	0.196	0.192%	1303-86-2
		Zinc Oxide (ZnO)	0.168	0.165%	1314-13-2
		Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.140	0.137%	1309-37-1
		Copper Oxide (CuO)	0.084	0.082%	1317-38-0
		Calcium Oxide (CaO)	0.056	0.055%	1305-78-8
		Silicon Dioxide (SiO <sub>2</sub> )	0.056	0.055%	14808-60-7
Base	Ceramic	Alumina (Al <sub>2</sub> O <sub>3</sub> )	42.347	41.517%	1344-28-1
		Silicon Dioxide (SiO <sub>2</sub> )	1.431	1.403%	14808-60-7
		Chromium Oxide (Cr <sub>2</sub> O <sub>3</sub> )	2.544	2.494%	1308-38-9
		Titanium Oxide (TiO <sub>2</sub> )	0.265	0.260%	13463-67-7
		Magnesium Oxide (MgO)	0.265	0.260%	1309-48-4
		Calcium Oxide (CaO)	0.212	0.208%	1305-78-8
	Conductor	Tungsten (W)	5.088	4.988%	7440-33-7
		Molybdenum (Mo)	0.159	0.156%	7439-98-7
	Ni Plating	Nickel (Ni)	0.371	0.364%	7440-02-0
		Cobalt (Co)	0.159	0.156%	7440-48-4
	Gold Plating	Gold (Au)	0.159	0.156%	7440-57-5
Crystal	Crystal	Silicon Dioxide (SiO <sub>2</sub> )	3.000	2.941%	7631-86-9
	Electrode	Silver (Ag)	12.999	12.744%	7440-22-4
	Adhesive	Silver (Ag)	4.25000	4.167%	7440-22-4
		Silicone resin	0.750000	0.735%	
<b>TOTAL</b>			<b>101.999</b>	<b>100.00%</b>	