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## Materials Declaration

**Company Name : Fox Electronics**  
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**Completed by Bruce Clark**

**Date : December 15, 2004**

\*Added 6/11/08

**Product Family : FX325BS 3.2x2.5mm Crystal Seam Seal Type**

|              | Material Name | Component  | Content (mg)  | Content ( w t % ) | (CAS Number) |
|--------------|---------------|--|---------------|-------------------|--------------|
| Cover        | Kovar         | Nickel (Ni)                                      | 0.928         | 5.54%             | 7440-02-0    |
|              |               | Cobalt (Co)                                      | 0.540         | 3.22%             | 7440-48-4    |
|              |               | Iron (Fe)  | 1.730         | 10.33%            | 7439-89-6    |
|              | Plating*      | Nickel (Ni)                                      | 0.130         | 0.776%            | 7440-02-0    |
| Base         | Ceramic       | Alumina (Al <sub>2</sub> O <sub>3</sub> )        | 7.360         | 43.9%             | 1344-28-1    |
|              |               | Silicon Dioxide (SiO <sub>2</sub> )              | 0.520         | 3.10%             | 7631-86-9    |
|              |               | Chromium Oxide (Cr <sub>2</sub> O <sub>3</sub> ) | 0.286         | 1.71%             | 1308-38-9    |
|              |               | Molybdenum (Mo)                                  | 0.052         | 0.310%            | 7439-98-7    |
|              | Metallization | Tungsten (W)                                     | 0.936         | 5.59%             | 7440-33-7    |
|              | Plating       | Nickel (Ni)                                      | 0.200         | 1.19%             | 7440-02-0    |
|              |               | Gold (Au)  | 0.104         | 0.621%            | 7440-57-5    |
|              | Seal Ring     | Iron (Fe)  | 1.510         | 9.01%             | 7439-89-6    |
|              |               | Nickel (Ni)                                      | 0.810         | 4.83%             | 7440-02-0    |
|              |               | Cobalt (C o)                                     | 0.473         | 2.823%            | 7440-48-4    |
|              | Silver Solder | Silver (Ag)                                      | 0.572         | 3.414%            | 7440-22-4    |
|              |               | Copper (Cu)                                      | 0.104         | 0.621%            | 7440-50-8    |
| Crystal      | Crystal       | Quartz (SiO <sub>2</sub> )                       | 0.489         | 2.92%             | 14808-60-7   |
|              | Electrode     | Silver (Ag)                                      | 0.010         | 0.0567%           | 7440-22-4    |
|              |               | Nickel (N i)                                     | 0.000079      | 0.000472%         | 7440-02-0    |
|              | Adhesive      | Silver (Ag)                                      | 0.00056       | 0.003313%         | 7440-22-4    |
|              |               | Silicon (Si)                                     | 0.000188      | 0.001122%         | 7440-21-3    |
| <b>TOTAL</b> |               |  | <b>16.754</b> | <b>100.00%</b>    |              |