

# Fair-Rite P/N 2518061517Y0

## Y Chip Bead Material Grade

## Nominal Chemical Composition

Supporting notes:

1. P/N 2518061517Y0 consists of:
  - a core Y Chip Bead Material Grade
  - b Termination Plating SnNiAg
2. Moisture Sensitivity Level (MSL)= 1
3. Max Reflow Temp= 260 degC
4. Max Time at Max Reflow Temp= 40 sec
5. RoHS 6/6 Compliant Terminations/ Wire are backwards compatible with standard Soldering Processes
6. RoHS Conversion Date= 1/1/2005
7. RoHS Compliance Marking is Contained on Shipping Labels

| <u>Ferrite -Compound</u> | <u>CAS Number</u> | <u>wt %</u> | Wt of core (g)= |   |
|--------------------------|-------------------|-------------|-----------------|---|
|                          |                   |             | <b>0.048</b>    |   |
| Fe2O3                    | 1309-37-1         | 65          | 0.0312          | Compound Weight (g)<br>Breakdown of Y Chip<br>Bead Material Grade |
| ZnO                      | 1314-13-2         | 17          | 0.0082          |   |
| NiO                      | 1313-99-1         | 9           | 0.0043          |   |
| CuO                      | 1317-38-0         | 6           | 0.0029          |   |
| MnO                      | 1344-43-0         | 3           | 0.0014          |   |

| <u>Termination Plating - Elements</u> | <u>CAS Number</u> | <u>wt %</u> | Wt of termination (g)= |  |
|---------------------------------------|-------------------|-------------|------------------------|--|
|                                       |                   |             | <b>0.012</b>           |  |
| Sn                                    | 7440-31-5         | 14.3        | 0.00172                | Element Weight (g)<br>Breakdown of Pb- Free<br>Termination Plating |
| Ni                                    | 7440-02-0         | 6.9         | 0.00083                |  |
| Ag                                    | 7440-22-4         | 78.8        | 0.00946                |  |

## Calculated Maximum Levels of RoHS Restricted Substances Present in Y Chip Bead Material Grade

| <u>Impurity Substance</u> | <u>RoHS Threshold (ppm):</u> | <u>ppm</u> | Wt of core (g)= |   |
|---------------------------|------------------------------|------------|-----------------|---|
|                           |                              |            | <b>0.048</b>    |   |
| Cr+6                      | 1000                         | 0.00       | 0               | RoHS Impurity Substance<br>Weight (g) Breakdown of<br>Y Chip Bead Material<br>Grade |
| Cd                        | 100                          | 0.00       | 0               |   |
| Hg                        | 1000                         | 0.00       | 0               |   |
| Pb                        | 1000                         | 0.00       | 0               |   |
| PBB                       | 1000                         | 0.00       | 0               |   |
| PBDE                      | 1000                         | 0.00       | 0               |   |