



BERYLLIUM USAGE IN COHERENT PRODUCTS

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BUSINESS UNITS SEARCHED IN AGILE

SEARCHED: Seven individual BU's

BERYLLIUM FOUND: Three BU's

BU INPUT

BERYLLIUM OXIDE (MCX1474)

BeO used as expansion matched submounts for the Horizontal arrays (Thunderbolt)

- There is no real alternative with the following properties: CTE matching, high thermal conductivity and being electrically isolating, which is needed for the Horizontal arrays (Thunderbolt). (Input provided by Christian Scholz, Jurgen Jandeleit). Per Juergen, 500 to 900 Thunderbolts per quarter.

SOP (HOPS) INPUT

COPPER BERYLLIUM ALLOY C17200 (MCX1213)

- Beryllium Copper is being used for the shutter (ODOS) because the design of the part includes features that make it its own return spring. Also, being copper helps dissipate the heat if it gets hit by the laser beam. We could investigate using other materials, such as SS. A SS shutter should be able to work as a spring but won't have the heat dissipation characteristics of copper. (Per David Vecht).

PLM INPUT

COPPER BERYLLIUM ALLOY C17400 (MCX1539)

- Beryllium Copper was used in a Modemaster product that was not RoHS Compliant and therefore not sold in Europe. Copper Beryllium is used extensively in the industry for spring contacts. (Per Rick Farmer)
- Coherent uses many catalog connectors that have copper beryllium contacts.

End