

Abstracts

Technique for Polishing Single Crystal Yttrium-Iron-Garnet Spheres (Correspondence)

P.D. Gianino, B.R. Capone, E. Kelly and J.I. Masters. "Technique for Polishing Single Crystal Yttrium-Iron-Garnet Spheres (Correspondence)." 1960 Transactions on Microwave Theory and Techniques 8.5 (Sep. 1960 [T-MTT]): 569-569.

A simple method of polishing Yttrium-iron-garnet spheres which produces samples of fractional linewidths has been employed at the Air Force Cambridge Research Center. The technique consists of "hand-polishing" the crystal spheres in diamond pastes and aluminum oxide powders of diminishing grit sizes. This method significantly increases, both by greater pressure and efficiency of abrasive contact, the rate of removing material from the surface of the sample, which is fundamental in the polishing process.

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