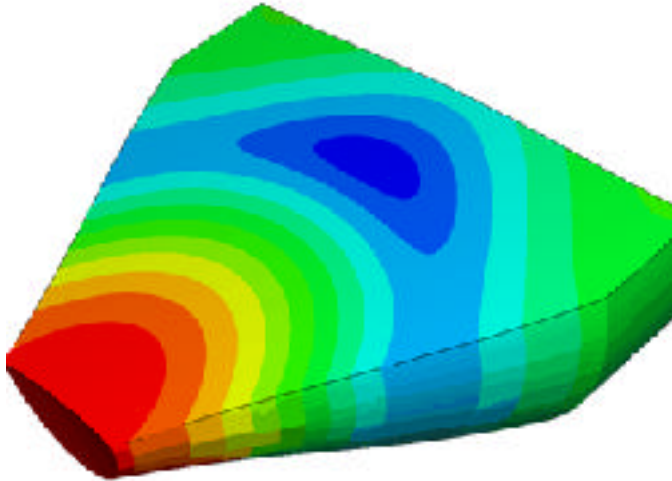


Co-Fired Piezo Bimorph Elements Ideal for Use in High Temperature Applications



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Morgan Technical Ceramics'

ElectroCeramics business (MTC), located in Bedford OH, announces that it designs and manufactures co-fired piezo (PZT) bimorph elements for use in aerospace, medical, automotive and general industrial sensor and actuator applications. The co-fired PZT bimorph elements are more mechanically stable than a conventional bimorph and are ideal for harsh environments. They are increasingly being used in critical aerospace applications, where mechanical and electrical stability are key performance attributes.

MTC's co-fired PZT bimorphs are a two-layer PZT device, configured with a central encapsulated electrode region. Similar in construction to a conventional bonded bimorph, the co-fired bimorph is fired at a temperature that sinters the two PZT layers into a monolithic structure separated only by the inner electrode. This construction makes the bimorph more mechanically stable. It also facilitates their use in harsh environments, since there is a uniform mechanical interface at the edges, with no seams for potential infiltration. In addition, the device behavior will have similar characteristics to the bulk PZT properties.

Source URL (retrieved on 02/01/2015 - 4:51pm):

http://www.mdtmag.com/product-releases/2011/01/co-fired-piezo-bimorph-elements-ideal-use-high-temperature-applications?qt-recent_content=0&qt-video_of_the_day=0