



A New Low-Expansion Composite in Lead Iron Niobate-Lead Titanate System

http://www.firstlight.cn 1996-08-30

A composite prepared between lead titanate (PT) and lead iron niobate (PFN) exhibits low thermal expansion coefficient (α) over the te mperature range 300–673K. X-ray, DTA, and dilatometric measurements have been used to identify the optimum sintering condition, retaining the individual constituent identity, to achieve overall low bulk thermal expansion. The composite, PFN0.35PT0.65 sintered at 1223K for 1 5 min. and at 1253K for 60 min. are sufficiently dense and show an overall α of -0.3×10 –6/K and -1.2×10 –6/K, respectively, in the temperature range 300–673K.

<u>存档文本</u>

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