No. 1C-c64 $PbTiO_3$–$PbHfO_3$ modified with La (PLHT)

1b	The PLHT means the ceramics of La-modified Pb(Hf,Ti)O_3. The composition is often specified by $(Pb_{1-x}La_x)(Hf_yTi_{1-y})_{1-x/4}O_3$, or X/Y/Z, where X = 100x, Y = 100y, and Z = 100(1−y). The true composition is not known.	73Cut
5a,ca	Dielectric constant, polarization, coercive field: Fig. 1C-c66-001.	
7a	Electromechanical coupling coefficient: Fig. 1C-c66-001.	
9b	Electrooptic effect: Fig. 1C-c66-002; see also	73Ain

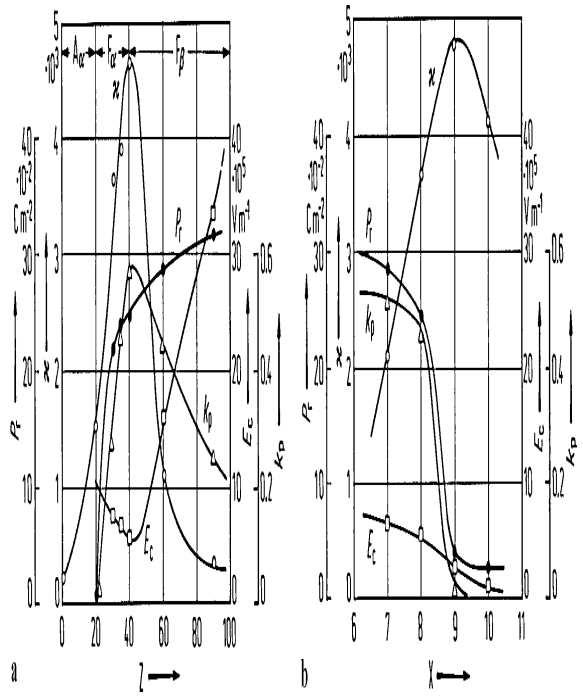

Fig. 1C-c64-001. PLHT(ceramics). **(a)** 8/(100−Z)/Z. κ, P_r, E_c and k_p vs. Z. **(b)** X/65/35. κ, P_r, E_c and k_p vs. X [73Cut]. Abscissas Z and X indicate Ti and La contents, respectively.

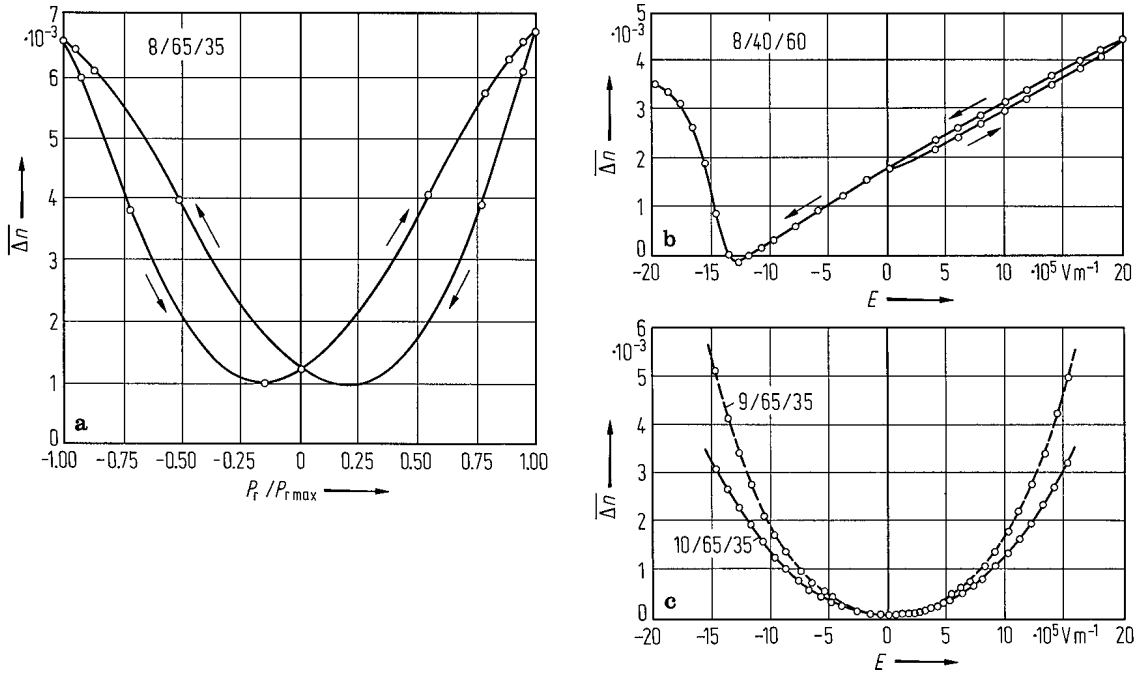

Fig. 1C-c64-002. PLHT (ceramics). Transverse electrooptic effect. **(a)** 8/65/35. $\overline{\Delta n}$ vs. P_r / P_{rmax} . **(b)** 8/40/60. $\overline{\Delta n}$ vs. E. **(c)** 9/65/35 and 10/65/35. $\overline{\Delta n}$ vs. E [73Cut]. P_r: remanent polarization. $\overline{\Delta n}$: effective birefringence. $\lambda = 633$ nm.

References

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73Cut Cutchen, J.T., Haertling, G.H.: J. Am. Ceram. Soc. **56** (1973) 225.