

No. M15-v Pb_{1-x}Sn_xTe

1b	The system Pb _{1-x} Sn _x Te forms a solid solution over the whole range of x, and the compounds with $x > \approx 0.3$ show a structural phase transition from cubic to rhombohedral phase. Transition temperature as a function of composition x: see Phase diagram for pressure and composition: see	80Nis 80Nis, 81Mur 91Ser
5a	Dielectric constants: obtained from magneto-plasma reflection measurement: $\kappa = 1 \dots 6 \cdot 10^3$ at 4.2 K ($x = 0 \dots 0.25$): see at 17...38 GHz ($x = 0.25$, In doped): see	80Nis, 81Mur 90Aki
8	Velocity of sound wave vs. T : Fig. M15-v-001, Fig. M15-v-002; see also Elastic constants: c_{11} and c_{44} : see	85Vas 88Vas
9a	Refractive index: see Far-infrared reflectivity: Fig. M15-v-003; see also Carrier plasma frequency vs. T ($x = 0.21$): see Carrier plasma frequency vs. p ($x = 0.21$): see	86Gho 84McK1 84McK2 84McK1
11	Conducting properties: see Shubnikov-de Haas effects and Fermi surface: see Band parameters: effective mass, energy gap: see	80Kus, 81Mur, 93Aki, 93Nem 85HeY1, 85HeY2, 85HeY3 88Gan
13c	Mössbauer studies: see	82Ant, 82Bal, 82Pro, 83Ant