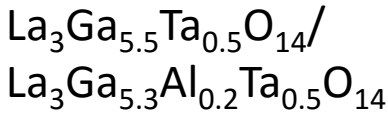


# LTG/LTGA



High electromechanical coupling factor  
 Steady-state value of piezoelectric constant  $d_{11}$  up to 600 ° C  
 High electrical resistivity



## Product Information



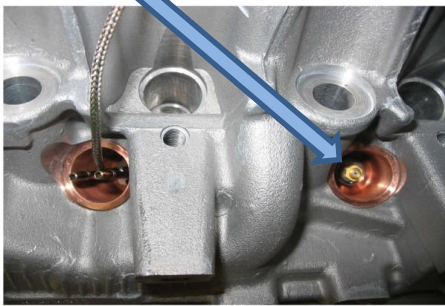
4 inch LTGA single crystal

## Main Applications

- Surface Acoustic Wave (SAW) Sensors
- Bulk Wave Sensors, and Piezo static Sensor elements, for high sensitivity and high temperature applications
- Bulk Wave (BAW) resonators
- SAW devices for frequency control
- Piezoelectric filters, both discrete and monolithic

## LGS, LTG and Al substituted crystals Properties

Crystal	Density (g/cm <sup>3</sup> )	K <sub>1,2</sub>	ρ (Ω·cm) @400°C
LGS	5.85	0.16	5.9x10 <sup>7</sup>
LGS-Al (0.9)	5.67	0.162	7.6x10 <sup>8</sup>
LTG	6.12	0.17	2.2x10 <sup>7</sup>
LTG-Al (0.5)	6.00	0.16	7.1x10 <sup>8</sup>



Combustion piezo sensor for engines

**C&A products: LTG/LTGA crystals, blanks, wafers**