SERIES S37 · OTHER PIEZOELECTRICS

Other piezoelectric crystals and films



Specialty piezoelectric materials for high-temperature sensing, strain engineering, piezotronics and MEMS. Crystal quartz (ST- and AT-cuts) is listed in series S26.

- Langasite: no phase transition up to its melting point (≈ 1470 °C)
- PMN-PT: relaxor single crystal, d_{33} > 1500 pC/N, poled
- ZnO: piezoelectric semiconductor, a = 3.250 Å, c = 5.207 Å
- AlN and GaN templates for BAW, PMUT and HEMT work

CONFIGURATIONS

Ref. No.	Material	Orientation / film	Format	Price
S3701	Langasite ($La_3Ga_5SiO_{14}$)	Y-cut	3" × 0.5 mm, SSP	On request
S3702	PMN-PT	(001), poled	5 × 5 × 0.5 mm	On request
S3703	PMN-PT	(001), poled	10 × 10 × 0.5 mm	On request
S3704	PMN-PT	(011), poled	5 × 5 × 0.5 mm	On request
S3705	PMN-PT	(011), poled	10 × 10 × 0.5 mm	On request
S3706	ZnO	(0001) Zn-face	10 × 10 × 0.5 mm	On request
S3707	ZnO	(0001) O-face	10 × 10 × 0.5 mm	On request
S3708	ZnO	(11-20)	10 × 10 × 0.5 mm	On request
S3709	AlN template	0.5 µm AlN	on 4" Si	On request
S3710	AlN template	0.5 µm AlN	on 2" sapphire	On request
S3711	AlN template	1 µm AlN	on 4" Si	On request
S3712	AlN template	1 µm AlN	on 2" sapphire	On request
S3713	AlN template	2 µm AlN	on 4" Si	On request
S3714	AlN template	2 µm AlN	on 2" sapphire	On request
S3715	GaN template	2 µm GaN	on 2" sapphire	On request
S3716	GaN template	2 µm GaN	on 4" sapphire	On request
S3717	GaN template	5 µm GaN	on 2" sapphire	On request
S3718	GaN template	5 µm GaN	on 4" sapphire	On request

Specifications are typical values; every lot ships with a Certificate of Conformance, and measured data are available on request. Prices on request.