

Single Crystal Components

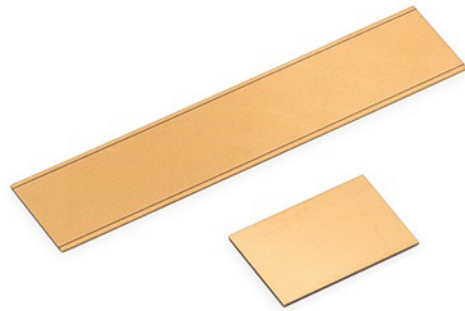
Single Crystal Plates

Features

- High-performance PMN-PT and PIN-PMN-PT materials
- Highly customizable

Applications

- Medical ultrasound imaging
- Energy harvesting
- Non-destructive testing
- Low-power actuation



Description

CTS single crystal components offer extremely high sensitivity and bandwidth for demanding applications. Single crystal plates are particularly well-suited for ultrasonic sensing applications and can be customized to meet your exact requirements.

Standard Product, Add-Ons or Custom Solutions

Most of CTS' products are custom designed for specific applications with unique requirements. Our capabilities for single crystal plates include:

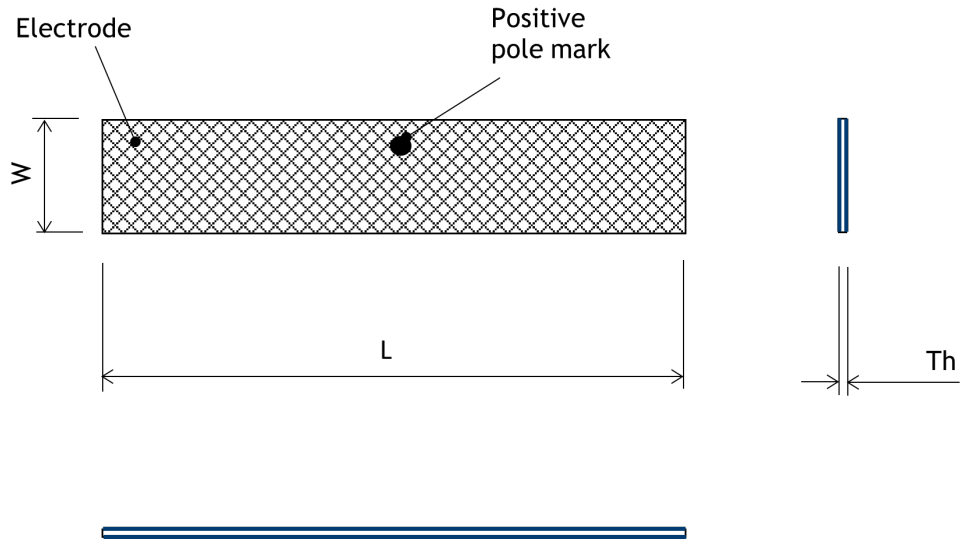
- Length and width from 0.6mm x 0.4mm to 90mm x 30mm
- Thickness from 0.025mm (with backing) to 20mm
- PMN-PT and PIN-PMN-PT materials

Technical Specifications

Product Number		SB001P-00338	ST001P-00185
Product Reference		Plate-PMN-PT-L25-W5-TH0.5	Plate-PIN-PMN-PT-L25-W5-TH0.5
Property	Units		
Length (L)	mm	25 +/-0.2	25 +/-0.2
Width (W)	mm	5 +/-0.2	5 +/-0.2
Thickness (TH)	mm	0.5 +/-0.01	0.5 +/-0.01
Free Capacitance (C_p)	nF	9.96~16.6	8.85~13.3
Typical Thickness Resonant Frequency (f_r)	MHz	3.87	3.87
Single Crystal Material	-	PMN-PT	PIN-PMN-PT
Electrode Material	-	Gold	Gold

For material data, please visit www.ctscorp.com/Piezoelectric-Material-Properties

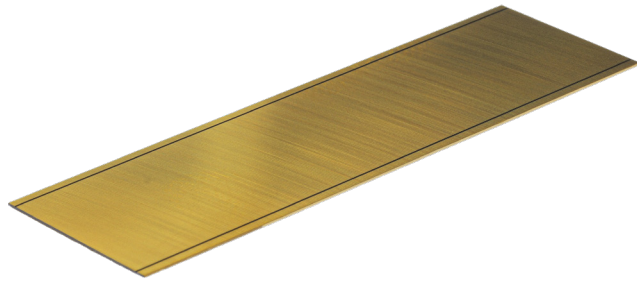
Technical Drawings



Product Family

Single Crystal Components

- Plates
- Shear Plates



- Rings
- Discs



- Composites
- High-Frequency Composites

