

Bulk Piezoceramic Components

Bulk Piezoceramic Rings

Features

- High-power PZT material
- Durable and stable product
- Highly customizable

Applications

- Compact power transducers
- Dental scalers
- Sonar
- Ultrasonic scalpels and phacoemulsification (cataract)
- Ultrasonic cleaning
- Ultrasonic welding



Description

CTS bulk piezoceramic components are ideal for high-performance sensor, actuator and transducer applications. CTS piezoceramic rings are particularly adapted to power transducers applications and can be customized to your requirements.

Standard Product, Add-Ons or Custom Solutions

Most of CTS' products are custom designed for specific applications with unique requirements. Our capabilities for piezoceramic rings include:

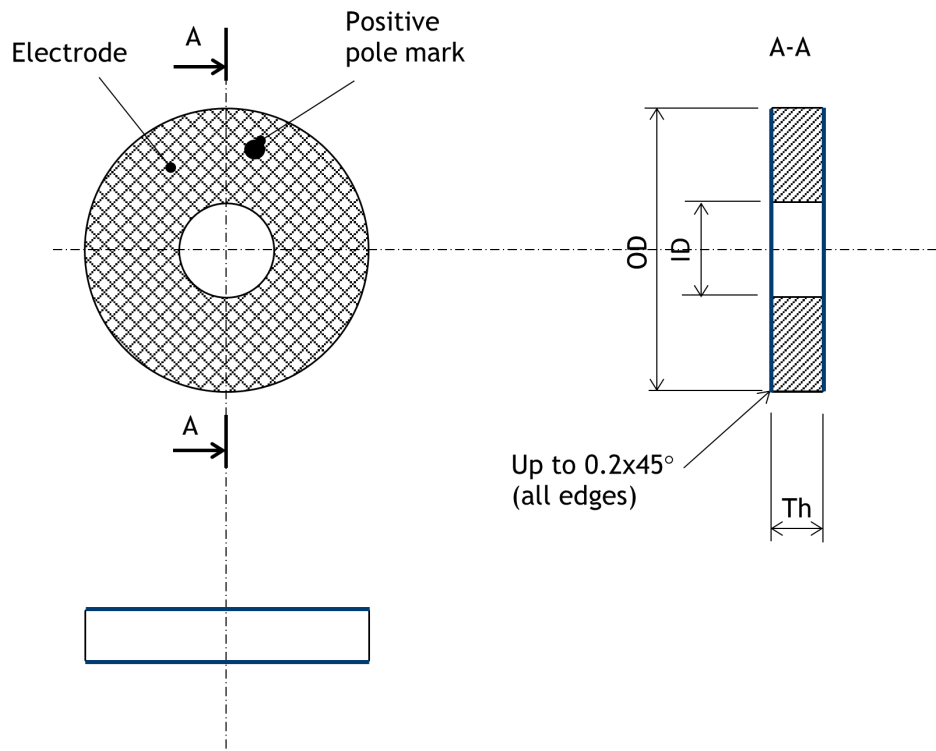
- Outer diameter from 1mm to 200mm
- Thickness from 0.076mm (HD materials) or 0.2mm (standard materials) to 25mm
- Wide range of materials and electrodes

Technical Specifications

Product Number		30003031	30003041
Product Reference		Ring-NCE81-OD10-ID5-TH2	Ring-NCE81-OD50-ID20-TH5
Property	Units		
Outer Diameter (OD)	mm	10 +/-0.1	50 +/-0.1
Inner Diameter	mm	5 +/-0.2	20 +/-0.45
Thickness (Th)	mm	2 +/-0.05	5 +/-0.05
Free Capacitance (C_p)	nF	0.27 +/-10%	3 +/-10%
First Resonant Frequency (f_r)	MHz	0.15 +/-10%	0.033 +/-10%
Electrical Impedance (Z_r) at Resonance	Ω	<45	<8.5
PZT Material	-	NCE81	NCE81
Electrode Material	-	Screen-Printed Silver	Screen-Printed Silver

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

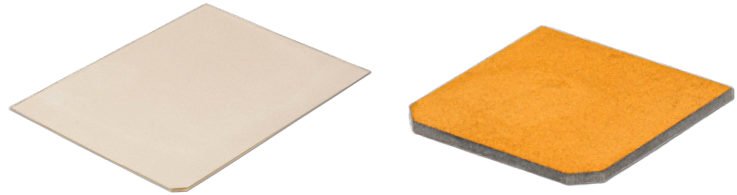
Technical Drawings



Product Family

Bulk Piezoceramic Components

- Plates
- Shear Plates



- Rings
- Discs
- Tubes



- Bowls
- Hemispheres



- Composites

