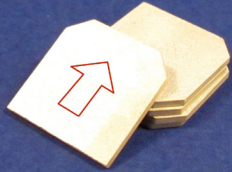


# Shear Mode Piezo Elements



#70-50XX



## FEATURES

- Quick Delivery
- High Quality
- Competitive Pricing
- Consistent Performance
- Available with Leads

## APPLICATIONS

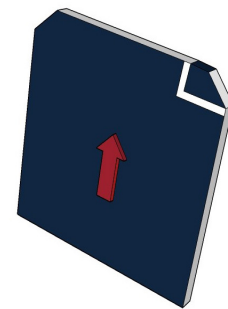
- Sensors
- Actuators
- Accelerometers
- Non-Destructive Testing
- Structural Health Monitoring

## TECHNICAL SPECIFICATIONS

Cat #	Shape	OD / L	ID / W	Thk.	Material	Electrode Pattern	Thk. Freq.	Capacitance
70-5010	Plate	15.00 mm ±0.25	15.00 mm ±0.25	1.00 mm ±0.05	850	Solid	~950 KHz	~2,800 pF
70-5015	Plate	15.00 mm ±0.25	15.00 mm ±0.25	1.00 mm ±0.05	850	Wrap-Around	~950 KHz	~2,800 pF
70-5020	Plate	15.00 mm ±0.25	15.00 mm ±0.25	1.00 mm ±0.05	840	Solid	~1.0 MHz	~2,000 pF
70-5025	Plate	15.00 mm ±0.25	15.00 mm ±0.25	1.00 mm ±0.05	840	Wrap-Around	~1.0 MHz	~2,000 pF

- Max Voltage = 200 V (Peak to Peak); this is a safe value and can sometimes be much higher. Contact APC for more information.
- Thickness is measured before electroding.
- Shear mode plates are poled along the standard 1-axis. Following poling, the fired-on-silver electrodes are removed and element is re-electroded along the 3-axis using an epoxy silver.

APC can customize a shear mode piezo plate or ring to your exact specifications using either an epoxy silver or a sputtered electrode. Contact your APC Representative for more details.



The picture above is representative of APC's 15mm x 15mm x 1mm shear mode plates. The notches indicate the positive face of the ceramic (red arrow indicates the poling direction). Blue indicates epoxy silver. Note the wrap around electrode for easier lead attachment.

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