

Major Applications of Piezoelectric Ceramics (piezoelectric components)

1. Filters

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| Ladder type ceramic filter | - | pocket bell, high grade receiver, portable communication equipment |
| Ceramic discriminator | ----- | wave detector for high grade receiver, portable radio equipment, movable radio equipment |
| "Cerap" | ----- | sonic frequency trapping for monochrome/color TV set and VTR |
| "Ceraminator" | ----- | SIF wave detecting circuit for monochrome/color TV set and VTR and FM wave detecting circuit |
| SIF ceramic filter | ----- | SIF circuit for monochrome/color TV set and VTR |
| "Pyzonator" | ----- | TV image middle frequency wave trapping and filtering, AFC circuit for TV set |
| Lead filter | ----- | pocket bell, tranceiver, catch phone, multi-sound receiver for TV set, publicity radio equipment, radio equipment for taxi, traffic signal controller, automatic controller, telemeter, tele-controller, radio buoy |
| ZnO surface wave filter | --- | VIF circuit for TV set and VTR |

2. Ultrasonic Applications

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| Ultrasonic ceramic microphone | - | wireless remote controller for various electronic appliances, ultrasonic approaching switch |
| Ultrasonic delay ray | ----- | replay circuit for color TV set (PAL, SECAM, NTSC), drop-out compensation circuit for VTR, frame adjusting circuit for TV camera |
| Ultrasonic atomizer unit | -- | ultrasonic humidifier, atomizer for liquid (water, oil, etc.) |
| Ultrasonic humidifier | ----- | ultrasonic humidifier for home use |
| Ultrasonic cleaner | ----- | ultrasonic cleaner |
| Ultrasonic transducer | ----- | ultrasonic flaw detector, fish detector, ultrasonic microphone (in water), ultrasonic cleaner |

3. Other Applications

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|-----------------------|-------|--|
| Piezoelectric buzzer | ----- | informing, confirming and alarming for various electronic appliances |
| Manometer sensor | ----- | electronic blood pressure sensor, sensors for vibration and shock |
| Audio optical element | ----- | newspaper facsimile, laser printer, optical record, laser processing, optical scanner image display, spectrum analyzer, high speed spectroscope, color resolver, color mixer |