



The Dual Zone MegPie is a single-wafer Megasonic transducer for cleaning and sonochemical processing of multiple substrate sizes in one chamber. It applies a uniform dose of acoustic energy to a rotating substrate. The MegPie will improve your process efficiency and lower the process time. It is easy to retrofit to your single substrate processing tool.

Features & Benefits

- Processes two sizes of substrates: 150/200, 200/300, or 300/450mm
- The sapphire resonator is particle neutral and will not add particles to the process
- Patented crystal bond to the resonator
- · Patented RF connection to the crystal
- · Redundant internal RTP temperature monitoring
- · Custom sizes available
- · Sapphire resonator is compatible with all processing chemistries
- Uniform direct acoustic energy applied to the process
- Increased process efficiency
- Reduced process time
- · Reduced process chemistry usage
- No moving parts to maintain
- No consumables works better than brushes

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Technical Specifications

- Power density: 0.05 2.0 Watts/cm²
- Standard operating frequency: 925 kHz; other frequencies available on request
- Mounting height: 0.02" 0.14" (0.5mm 3.5mm)
- Process fluid temperature: 15°C 60°C
- Process fluid required depends on the substrate size and RPM: 0.5 - 3.0 lpm
- Operating RPM: 1 100
- Nitrogen or CDA purge: 10 lpm
- Mounting with 3 x M6 female threaded bosses
- Use with IMPulse RF electronics

Processes Supported

- Post-CMP
- TSV
- Pre-SOIC bond clean
- SU-8 develop
- Lift off
- Resist strip

- LIGA processes
- · Mask cleaning
- · Etch assist
- · Plating pre-cleaning
- Pre-plating bubble removal
- Post-laser cleaning

