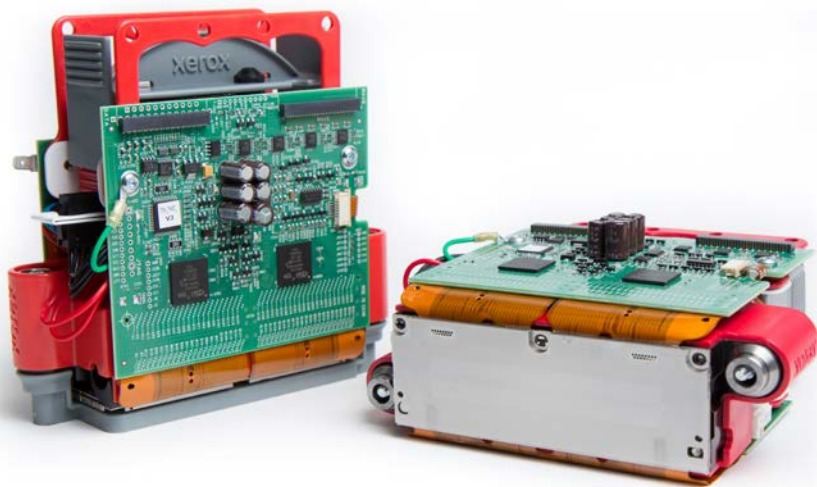


Xerox® MDF1 / MDF2 Industrial Inkjet Reservoir Printhead

The MDF printhead features Xerox® jet to jet (jet-jet) calibration and a wide operating temperature to enhance jetting performance across a wider array of materials used in industrial applications.

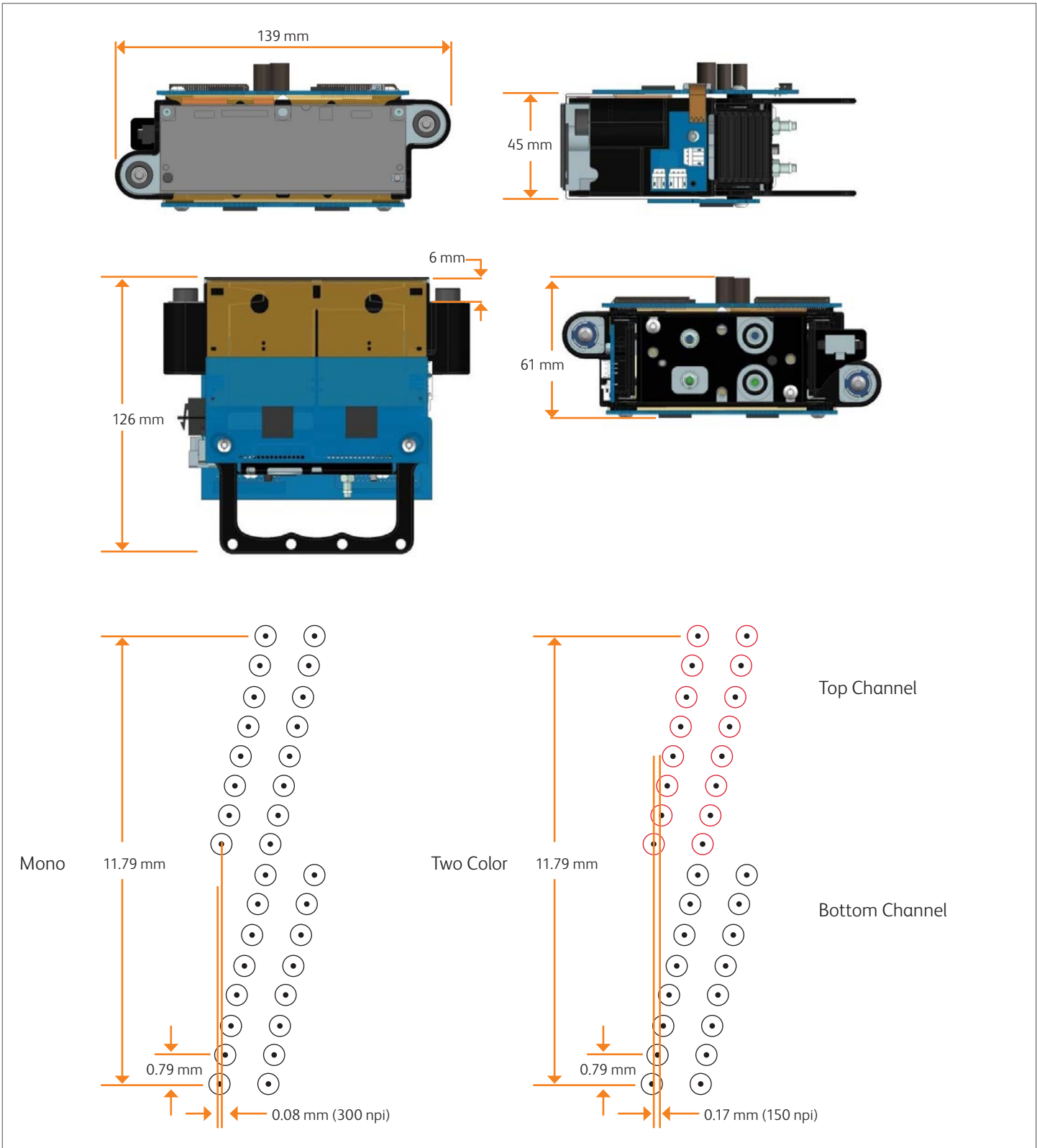


Xerox® MDF1 / MDF2 Industrial Inkjet Reservoir Printhead

KEY PERFORMANCE DIMENSIONS

- 880-Jet Array**—All of the MDF Printhead Assembly's 880 jets are precisely aligned to one another during the manufacturing process. High nozzle-count systems require fewer Printheads and simpler alignment mechanisms.
- High Temperature Operation**—The MDF Printhead Assembly can be operated at temperatures as high as 85°C. This further increases the latitude of jettable materials by allowing temperature to be used to adjust material viscosity to an appropriate level.
- High Frequency Operation**—With a maximum operating frequency of 43 kHz, the MDF Printhead Assembly provides superior throughput and performance.

| Operating Parameters | Unit of Measure | Xerox® MDF |
|---|------------------|--|
| Number of addressable jets | | 880 |
| Rows of nozzles | | 16 |
| Single-color (Mono) nozzle spacing | microns (npi) | 84.4 (300) |
| Two-color (closest) nozzle spacing | microns (npi) | 168.8 (150) |
| Drop size | picoliters | 15–30 |
| Drop size variation, 1 sigma | percent | ~ 2 |
| Jet straightness, 1 sigma | mrad | ~ 6.6 |
| Nominal drop velocity | m/s | 3.3 to 7.5 |
| Drop velocity variation, 1 sigma (with proper head calibration by customer) | percent | 4 |
| Operating temperature | °C | room to 85 |
| Fluid viscosity | cP | 6 to 11 (higher/lower viscosities can be evaluated) |
| Fluid surface tension | dyne/cm | 25 to 40 |
| Maximum operating frequency | kHz | 43 kHz |
| Head filter | microns absolute | 25 (removable filter) |
| Wetted materials | | 316L Stainless Steel Aluminum AL6061 E-coat Sylgard® 577 Trogamid® CX7323 Ultem® Plastic Kapton® |
| Ejection cycles successfully tested (waveform dependent) | drops per jet | 1.5 trillion (or more) |



For production information, please contact us at OEMSales@xerox.com or visit www.xerox.com/printheads