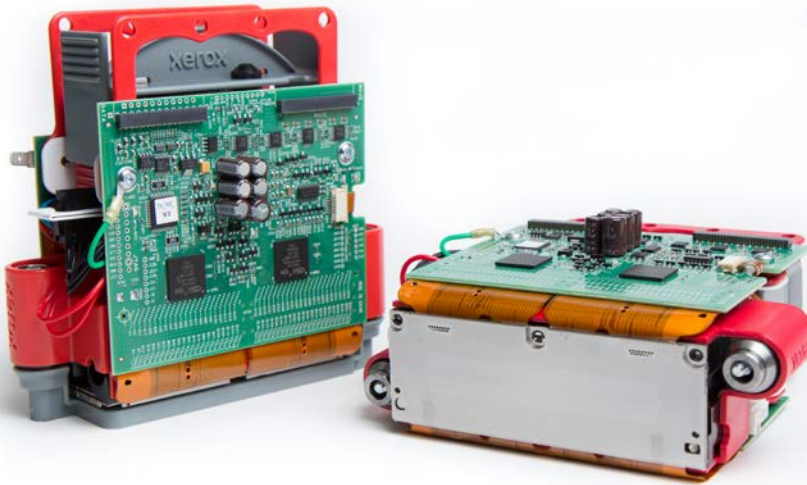


Xerox® MDF1 / MDF2 Industrial Inkjet Reservoir Printhead

DATA SHEET

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.

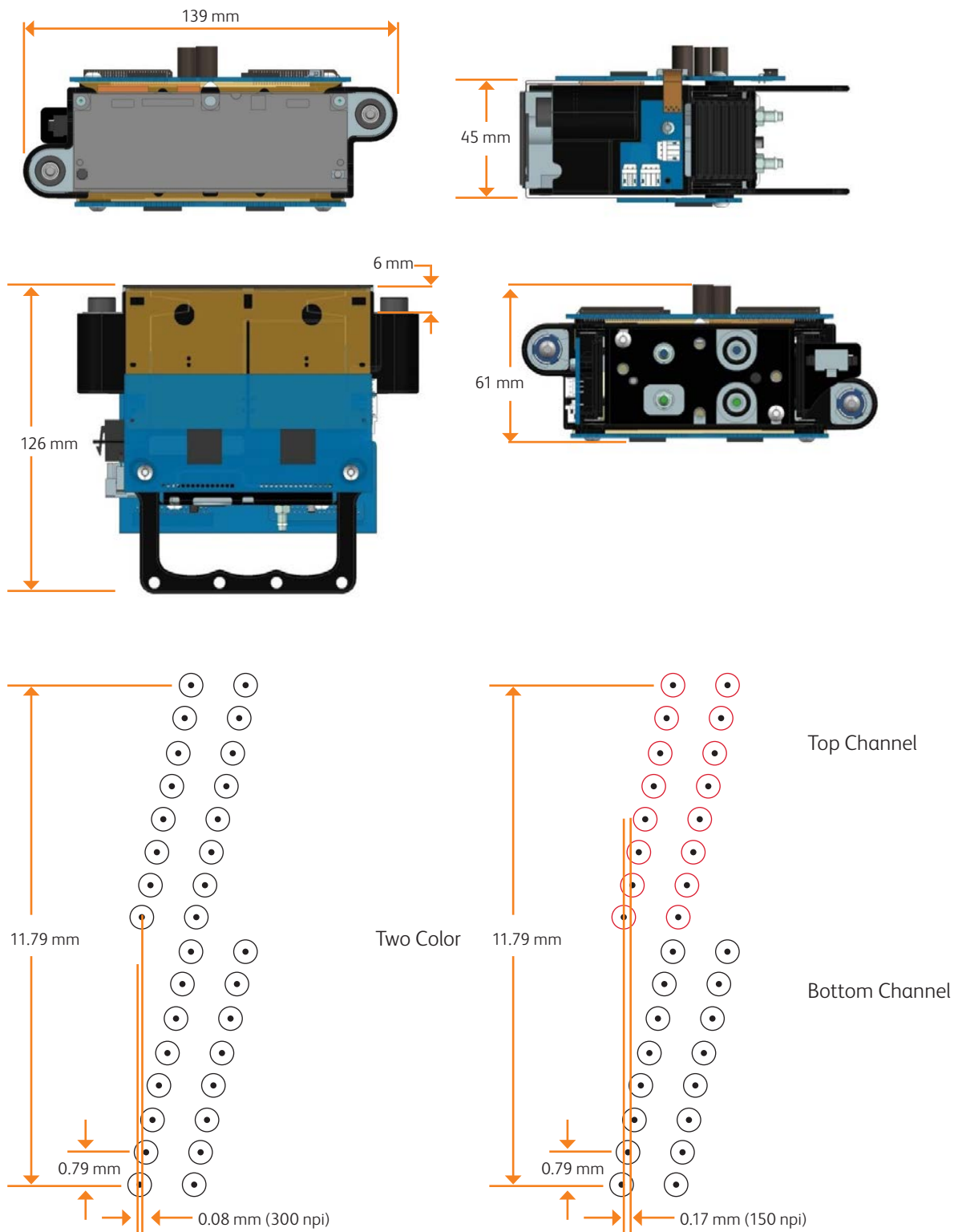


Xerox® MDF1 / MDF2 Industrial Inkjet Reservoir Printhead

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 125
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)



Product brochure was printed on a Xerox® Baltoro™ Production Inkjet Press with Xerox® W-Series Printheads.

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