NANODIMENSION

DragonFly® IV

IN-HOUSE RAPID PROTOTYPING OF ELECTRONICS

Breakthrough solution for traditional development challenges
One-stop shop for design and manufacturing

RESHAPE
PERFORMANCE

RESHAPE
DEVELOPMENT CYCLES

RESHAPE
FORM FACTOR

PRINTER CAPABILITIES

Build Volume	160 mm x 160 mm x 3 mm
Inks	Optimized silver nano particles and dielectric inks
Supported File Formats	All major eCAD and mCAD software, ODB++, Gerber & Excellon, STLs
Resolution	18 µm (x), 18 µm (y), 10µm (z)
Min. Line / Space	75 µm traces / 150 µm spacing
Min. BGA Pitch	400 µm
Min. Via	200 µm
Min. Dielectric Layer Thickness	10.0 µm
Min. Conductive Layer Thickness	1.18 µm
Conductivity (Relative to Copper)	30% +/- 5%
Dielectric Constant (Dk) @ 2 GHz / 15 GHz	2.77 / 2.78
Tangential Loss (Df) @ 2 GHz / 15 GHz	0.015/0.018

PRINTER SPECIFICATIONS

Dimensions	1,400 mm x 800 mm x 1,800 mm
Weight	520 kg, (1,150lbs)
Power Supply*	230 VAC, 20 A, 50-60 Hz
Network Connectivity	Ethernet TCP / IP 10/ 100 /1000
Operational Humidity	Above 35% non-condensing
Operational Temperature	18°C (64°F) to 25°C (77°F)
Regulatory Compliance	UL, CE, FCC
Deposition Technology	Piezo drop-on-demand inkjet
Number of Printheads	2, one for each ink: conductive and dielectric
Software	FLIGHT HUB Software Suite

*Must use UPS (Uninterruptible Power Supply

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