

The Voltera V-One Spec

DRILLING	METRIC	IMPERIAL
Spindle Speed (Max.)	13,000 RPM	13,000 RPM
Power	12V, 25W	12V, 25W
Runout (TIR)	0.076mm	0.003"
Shank Diameter	3.175mm	1/8"
Supplied Substrate Material	FR1	FR1
Bit Diameter (Max.)	2mm	0.078"
Bit Length (Max.)	38.1mm	1.5"

SOLDER COMPATIBILITY	Sn42/Bi57.6/Ag0.4 Solder	Sn63/Pb37 Solder
Standard Ink	✓	X
Flexible Ink	✓	X
Copper PCBs	✓	✓
HASL PCBs	X	✓

SOFTWARE REQUIREMENTS

Operating Systems	Windows 7, 8, 10 (64bit), OSX 10.11+
Compatible File Format	Gerber
Connection Type	Wired USB 2.0

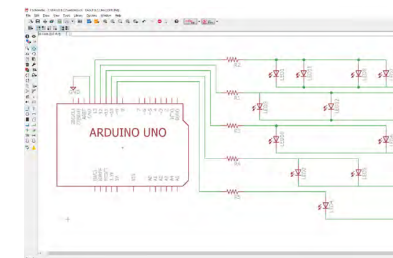
PRINTING	METRIC	IMPERIAL
Minimum Trace Width	0.2mm	8mil
Minimum Passive Size	1005	0402
Minimum Pin-to-Pin Pitch	0.65mm	26mil
Resistivity	12mΩ/Sq @ 70um Height	12mΩ/Sq @ 3mil Height
Supplied Substrate Material	FR4	FR4
Maximum Board Thickness	3mm	0.125"

SOLDERING

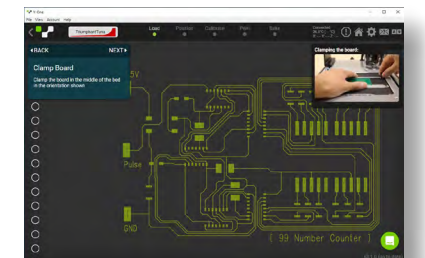
Minimum Passive Size	1005	0402
Minimum Pin-to-Pin Pitch	0.5mm	20mil
Solder Paste Alloy	Sn42/Bi57.6/Ag0.4	Sn42/Bi57.6/Ag0.4
Solder Wire Alloy	SnBiAg1	SnBiAg1
Soldering Iron Temperature	180-200°C	355-390°F

FOOTPRINT AND PRINT BED

Dimensions (L x W x H)	390mm x 257mm x 207mm	15.4" x 10.1" x 8.2"
Weight	7kg	15.4lbs
Print Area	128mm x 116mm	5" x 4.5"
Max. Heated Bed Temperature	240°C	464°F



Design your circuit and export a Gerber file



Load your design into the V-One software



Drill, print, solder and reflow your board



Test your prototype, iterate and repeat.