

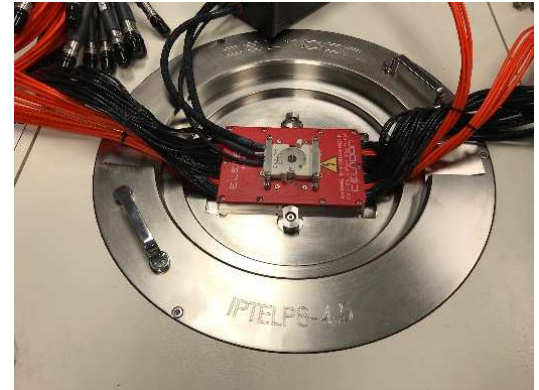
45EHV VersaCore™ High Voltage Probe

Card Interface and VersaJet™ System Data Sheet

45EHV/VC20EHV: 4.5inch High Voltage Motherboard for Celadon Element™
20mm VC20EHV VersaCore™ and VersaJet™ System

■ Features / Benefits

- Only High-Voltage Cable-out system available
- Cores can support up to 32 DC channels and 12 HV channels
- Stable probing temperature Room Temp to 200C
- High Voltage Core and High Voltage Motherboard Channels Rated to 3kV/channel [layout dependent]
- Integrates with Celadon VersaJet™
- Quasi-Kelvin Cabling Available
- Recommend: Celadon Custom Probe Card Holder unless the whole system is going in a chamber



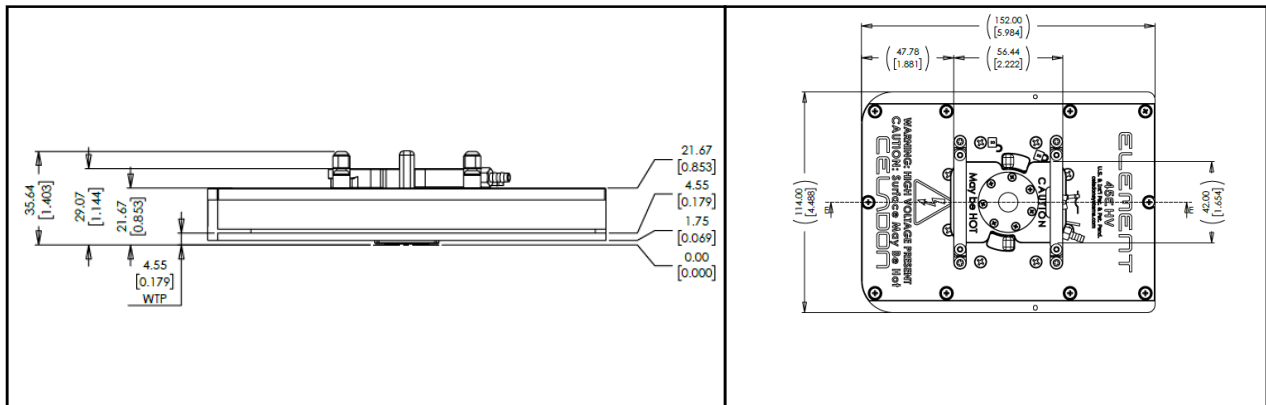
■ Specifications

High Voltage Channels Available	12 [one wire per channel or Quasi-K]
High Voltage Channel Leakage Spec	Channel-to-channel leakage $\leq 5\text{fA/V}$ @ 10 Seconds and 25°C.
High Voltage Standard Connector Termination	C02- Male Triax BNC 3-Lug HV Plug
High Voltage Probe Options	Proprietary HV Probe
DC Channel / Low Leakage Channels Available	32 [one wire per channel or Quasi-K]
DC Channel / Low Leakage Spec	Channel-to-channel leakage $\leq 5\text{fA/V}$ @ 10 Seconds and 25°C.
DC Channel / Low Leakage Standard Connector Termination	C01 - Triaxial 3-Lug Plug C20 - 26 Position AMP Connector
DC / Low Leakage Probe Options	WRe
X, Y, and Z Probe Tip Accuracy with VC20EHV Core	Standard $\pm 5\mu\text{m}$
Stable probing temperature	Room Temp to +200°C continuous
Probe Depth Available	6.0mm, 4.6mm
System diagnostic option	Yes
Max Current [DC]	250mA-2A [Layout Dependent]
Motherboard Voltage Rating [Max]	3kV [Layout Dependent]

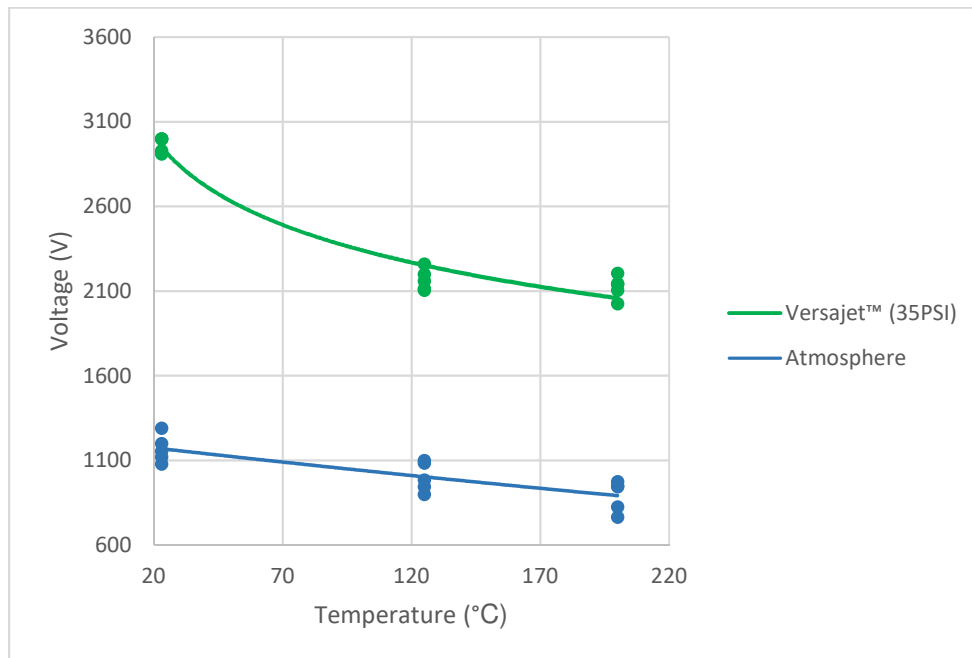
- Explanation of Part Number: PCI 4.5 E HV - #####
 1 2 3 4 5

1	Probe Card Interface	2	Interface size [4.5 inches]	3	Element™ Series [VC20/VersaCore™]
4	Indicates High Voltage Version	5	6-digit unique serial number with associated configuration documenting PCI details		

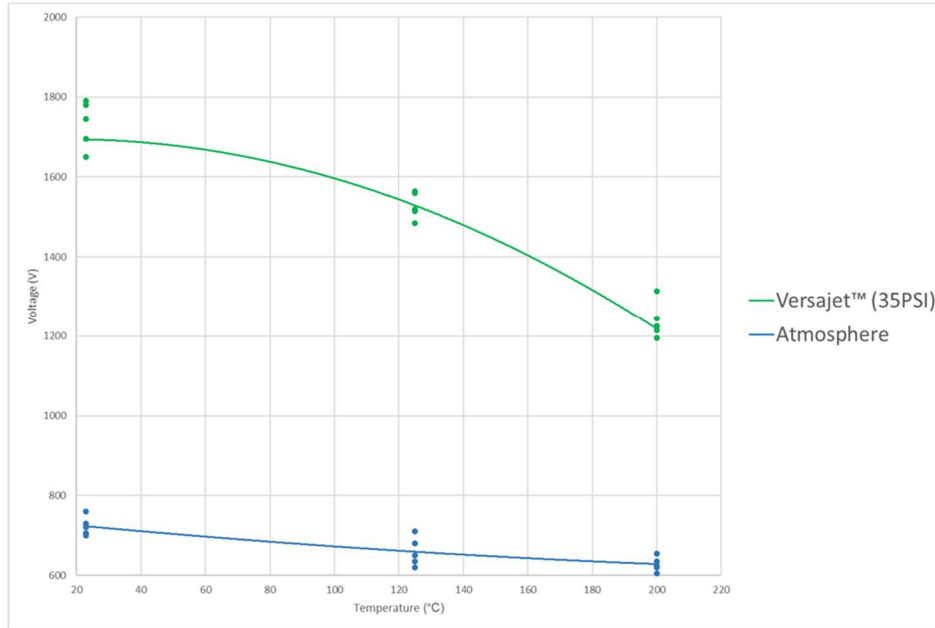
- Critical Dimension



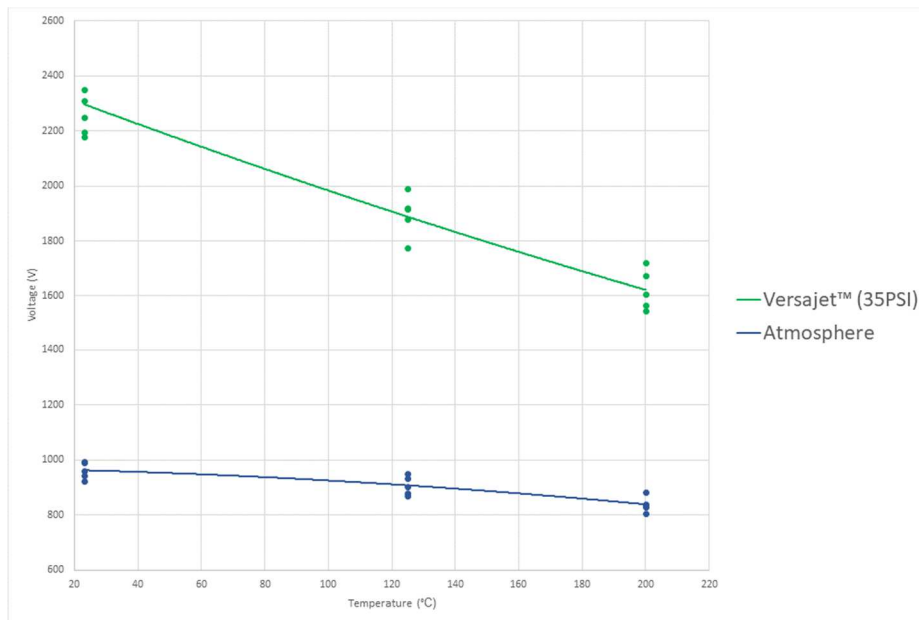
Breakdown Voltage [V] VS Temperature [°C] comparing VersaJet™[35psi] VS Air Test with 400µ Pad Gap with Rectangular Bond Pads *No passivation on the pads / worst case scenario*



Breakdown Voltage [V] VS Temperature [°C] comparing VersaJet™[35psi] VS Air Test with 200μ Pad Gap with Rectangular Bond Pads *No passivation on the pads / worst case scenario*



Breakdown Voltage [V] VS Temperature [°C] comparing VersaJet™[35psi] VS Air Test with 300μ Pad Gap with Rectangular Bond Pads *No passivation on the pads / worst case scenario*

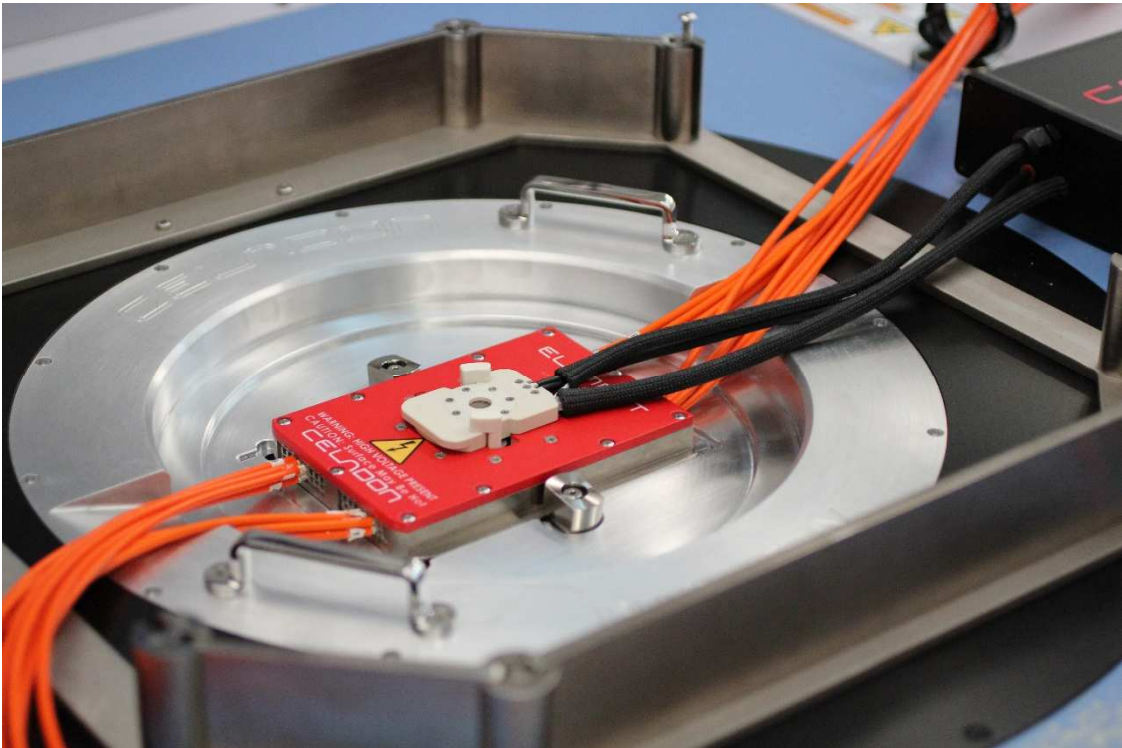


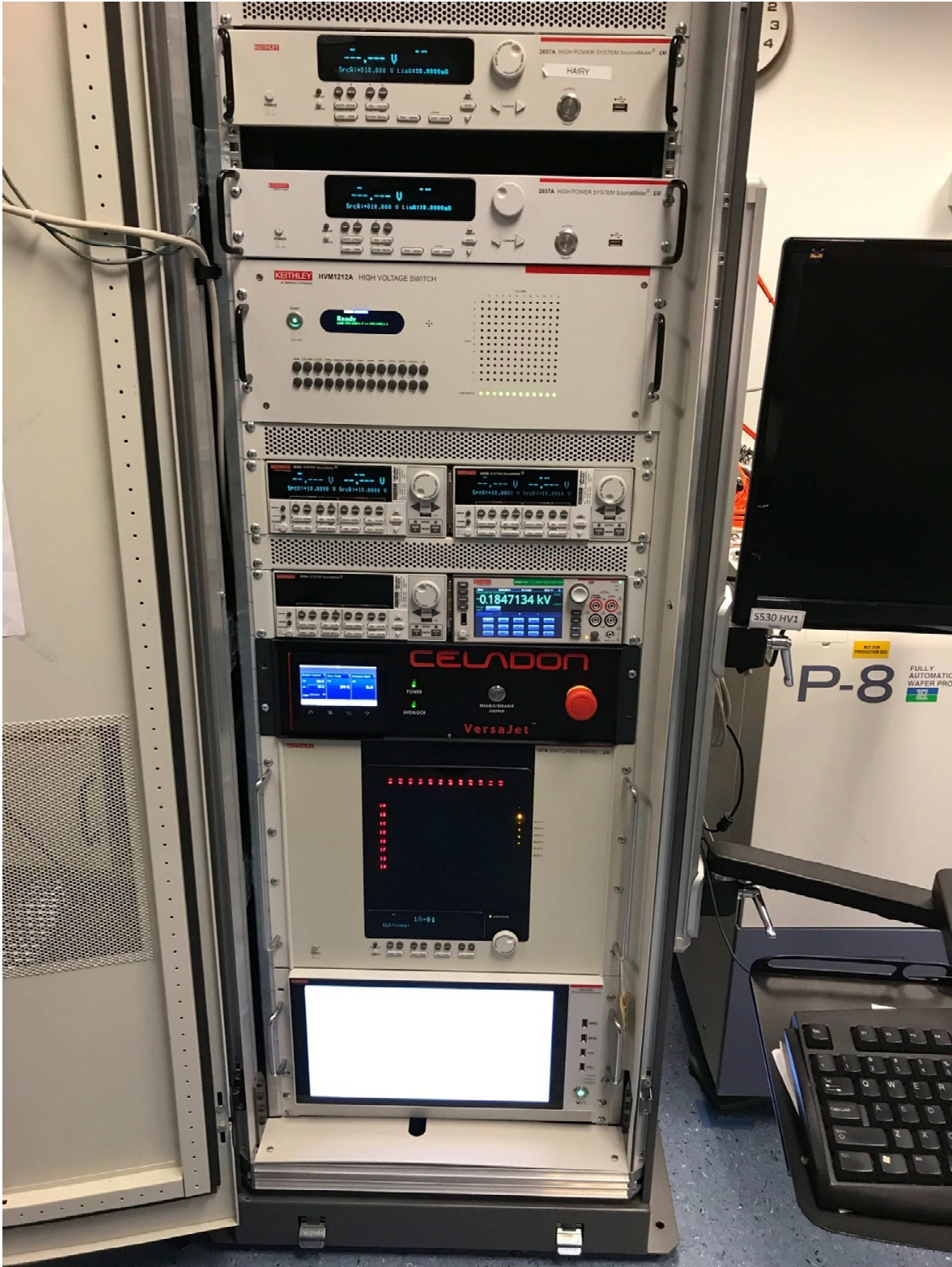
Celadon VersaJet™ Heating Unit



Celadon VersaJet™ Control Unit







CELADON™

Document Revision 1.0

*Charts, Graphs, and Specs on this Data Sheet were tested using standard VC20 product and layout rules. Different probe materials, pad layouts, and test conditions will cause results to vary.

Celadon Systems, Inc.: 13795 Frontier Court Burnsville, MN 55337, USA

Phone: 952-232-1700

Fax: 952-997-6225

Web: www.celadonsystems.com

Service Requests, RFQ, Information: salesteam@celadonsystems.com

Revision	Changes	Date	Approval
1.0	Initial Release	04/17/19	GET