



- **High Input Impedance**
- **25ppm Temperature Coefficient (15ppm available)**
- **100kV, 200kV, 400kV and and Models**
- **Corona Free Operation**
- **0.5% Accuracy (higher accuracies available)**

## INTRODUCTION

Wisman's RVD Series of high voltage dividers provide laboratory or production facilities with a convenient method of measuring up to 100kVdc, 200kVdc, 400kVdc or 600kVdc with accuracy better than 0.5%. These dividers are designed for use with high impedance digital voltmeters. All RVD dividers are housed in a polycarbonate cylinder containing a matched set of precision metal film resistors which have a temperature coefficient of less than 25ppm (15ppm available). A ladder type construction technique is used in conjunction with polished high voltage bushings specifically designed to minimize corona. BNC connectors are used to provide the low voltage proportional output signal. The RVD Series of high voltage dividers have no inferred bandwidth measurement capability what so ever. They are intended for DC steady state measurement only. Custom Encapsulated OEM High Voltage Dividers

Wisman designs and manufactures a wide array of custom encapsulated high voltage dividers for OEM applications like ion beam implantation for semiconductor manufacturing. Unique HV divider sizes, shapes, mounting arrangements and terminations can be provided addressing specific custom requirements. Contact Wisman to discuss your needs with our knowledgeable sales staff.

Wisman provides an NIST traceable calibration certificate with each RVD. A yearly recalibration cycle is recommended. Contact Wisman for calibration services.

## RVD SELECTION TABLE

	RVD100	RVD200	RVD400	RVD600
Input Voltage	0-100kV	0-200kV	0-400kV	0-600kV
Input Impedance	1000MΩ	2000MΩ	4000MΩ	6000MΩ
Output Impedance	1M; 100kΩ	20kΩ	40kΩ	60kΩ
Output Taps	100V, 10V	2V	4V	6V
Accuracy	0.5% (0.1%, OPT1)	0.5% (0.2%, OPT2)	0.5% (0.2%, OPT2)	0.5% (0.2%, OPT2)
Stability	0.01%/8hrs	0.025%/8hrs	0.025%/8hrs	0.025%/8hrs
Temp. Coefficient	25ppm/°C	25ppm/°C	25ppm/°C	25ppm/°C
Height	17.5" (44.5cm)	33.5" (84.5cm)	61" (154.94cm)	100.6" (255.27cm)
Max. Diameter	10" (25.4cm)	12" (30.5cm)	20" (50.8cm)	40" (101.6cm)
Weight	3.1kg	5.5kg	11.8kg	18kg
Output connector	BNC Type	BNC Type	BNC Type	BNC Type

(1) For accuracy of 0.1% specify RVD100-1

(2) For accuracy of 0.2% specify RVD200-2 or RVD400-2 or RVD600-2