

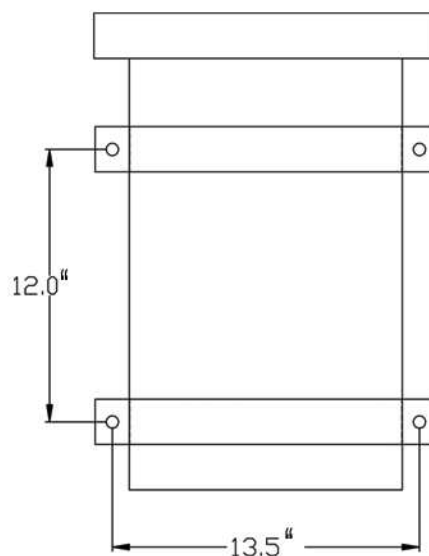
In accordance with FCC 08-228 Second Report and Order and Second Further Notice of Proposed Rulemaking released on September 26, 2008, Section 73.151 of the FCC Rules entitled "Directional Antenna Performance Verification" was modified to add among other things the following: "Samples may be obtained from base voltage sampling devices at the output of the antenna coupling and matching equipment for the base-fed towers whose actual electrical height is greater than 105 degrees." In response to this FCC Rulemaking Kintronic Labs has developed our new VSU-1 voltage sampling system. Pending final field testing and certification Kintronic Labs expects to commence delivery of these sampling systems by the third quarter of 2010.

The Model VSU-1 precision voltage divider will provide samples of the tower RF voltage Phase and Magnitude for measurements of AM Broadcast directional Multi-Tower arrays. The Sampling Units are designed to accommodate a maximum tower base voltage of 20kV Peak, to enable use with low to high power antenna arrays and standard to high antenna base drive impedances. These voltage sampling units have been developed to facilitate monitoring of AM directional arrays with tower electrical heights in excess of 105 electrical degrees.

The VSU-1 Divider is housed in a painted aluminum weatherproof enclosure with a 7" ceramic bowl insulator and stud assembly for interconnection with the tower. It is configured for installation at the output of an antenna tuning unit (ATU) to allow interconnection with the ATU Output Feed to the tower. The VSU-1 includes provisions for interconnection to the RF Feed Pipe and to the ATU RF Ground. The output connector of the unit is a Type N Female connector.

## TECHNICAL SPECIFICATIONS

FREQUENCY RANGE:	0.5 TO 2MHz
FREQUENCY RESPONSE:	FLAT TO WITHIN +/- 0.25 db
OUTPUT IMPEDANCE:	50 ohms - type N female
OUTPUT AMPLITUDE:	At a Nominal 51.5dB below Sampled RF Voltage with multiple-unit factory calibration available.
ABSOLUTE MAGNITUDE ACCURACY:	+/- 2%
ABSOLUTE PHASE ACCURACY:	+/- 2
MAGNITUDE TRACKING ACCURACY:	+/- 1%
PHASE TRACKING ACCURACY:	+/- 1
MAX. VOLTAGE RATING	20 kV peak
TEMPERATURE:	-40 to +50 C
HUMIDITY:	0 - 95%
DIMENSIONS:	15"W x 14.5"D x 19"H(38.1cm x 36.8cm x 48.25cm)
WEIGHT:	28 lbs (12.7 kg)



**MOUNTING DIMENSIONS**

## KINTRONIC LABORATORIES, INC.

144 PLEASANT GROVE RD.  
BLUFF CITY, TN U.S.A  
WWW.KINTRONIC.COM  
423.878.3141

