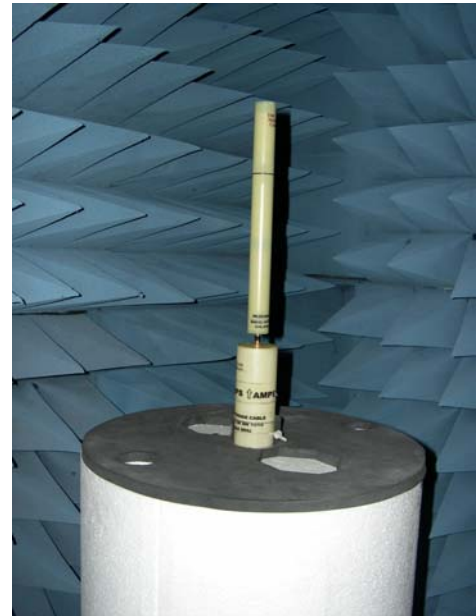


Model VA100 Gain Standard Dipoles



Description

The VA100 Gain Standard Dipoles are precision gain standards used to calibrate wireless test labs. They are narrow bandwidth sleeve dipoles optimized for pattern symmetry and low return loss. Measurements of total radiated power (TRP) and total isotropic sensitivity (TIS) require that the measurement system be calibrated with a standard of known gain. Any uncertainty in the gain of the dipole becomes an uncertainty contribution in every measurement of TRP and TIS. The gain of each Model VA100 dipole is measured using the three-antenna method so that the gain of the dipole is determined independent of any other gain standard.

Features

- Thin wall fiberglass radome
- Provided with gain calibration at three frequencies
- Return loss less than -20 dB
- Standard frequency bands from 400MHz to 2.6GHz
- Custom dipoles available upon request

Specifications

	Typical	Specification
Pattern Asymmetry	+/-0.05 dB	+/-0.1 dB
Return Loss	< -25 dB	< -20 dB
Gain	1.8 dBi	NS
Gain Uncertainty	0.2 dB	0.2 dB

Bands and Frequencies

Model	Band	Frequency (MHz)
VA100-1-D	CELL Tx	824-849
VA100-2-D	CELL Rx	869-894
VA100-3-D	GSM Tx	890-915
VA100-4-D	GSM Rx	935-960
VA100-5-D	GPS	1559-1610
VA100-6-D	DCS Tx	1710-1785
VA100-7-D	DCS Rx	1805-1880
VA100-8-D	PCS Tx	1850-1910
VA100-9-D	PCS Rx	1930-1990
VA100-10-D	UMTS Rx	2110-2170
VA100-11-D	Bluetooth 802.11b/g	2400-2484
VA100-12-D	DMB	2630-2655
VA100-13-D	MediaFlo	704-734
VA100-14-D	Video Apps	430-470
VA100-15-D	AWS-1 Tx	1710-1755
VA100-16-D	AWS-1 Rx	2110-2155