



A.H. Systems Inc.

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Horizontal Polarization

1 Meter Calibration, Broadband Dipole, 300 W

Model: SAS-530H

Serial Number: 123

Date: 08-Jul-05

Frequency (MHz)	Antenna Factor (dB/m)	Gain (dBi)	Gain (Numeric)
160	15.6	-1.3	0.75
170	15.0	-0.1	0.97
180	15.4	0.0	0.99
190	17.8	-2.0	0.63
200	20.0	-3.7	0.42
210	20.6	-3.9	0.41
220	21.0	-3.9	0.41
230	21.2	-3.7	0.42
240	20.3	-2.4	0.57
250	19.2	-1.0	0.80
260	17.8	0.7	1.19
270	17.8	1.1	1.28
280	18.3	0.9	1.23
290	19.1	0.4	1.10
300	20.5	-0.7	0.85
310	20.7	-0.6	0.87
320	21.9	-1.6	0.70
330	22.2	-1.6	0.69
340	23.0	-2.1	0.61
350	23.5	-2.4	0.58
360	23.2	-1.8	0.66
370	23.7	-2.1	0.62
380	22.1	-0.3	0.94
390	22.9	-0.8	0.83
400	21.5	0.8	1.20
410	20.4	2.1	1.62
420	20.7	2.0	1.59
430	20.9	2.0	1.59
440	22.0	1.1	1.29
450	23.1	0.2	1.05
460	23.7	-0.2	0.96
470	24.7	-1.0	0.79
480	24.9	-1.0	0.79
490	25.1	-1.0	0.79
500	25.1	-0.9	0.82

**Add antenna factor plus cable loss to receiver reading in dBuV
to convert to field intensity in dBuV/meter. Calibrate per
SAE ARP-958 and/or ANSI C63.5 and/or IEEE 291**



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Horizontal Polarization

3 Meter Calibration, Broadband Dipole, 300 W

Model: SAS-530H Serial Number: 123 Date: 08-Jul-05

Frequency (MHz)	Antenna Factor (dB/m)	Gain (dBi)	Gain (Numeric)
160	17.3	-3.0	0.50
170	14.2	0.7	1.16
180	15.5	-0.1	0.97
190	17.5	-1.7	0.68
200	19.2	-2.9	0.51
210	19.8	-3.1	0.49
220	20.4	-3.3	0.47
230	19.9	-2.4	0.57
240	19.1	-1.2	0.75
250	18.2	0.0	1.00
260	17.9	0.6	1.16
270	18.0	0.9	1.22
280	18.3	0.9	1.23
290	20.0	-0.5	0.89
300	21.0	-1.2	0.76
310	22.1	-2.0	0.63
320	23.0	-2.7	0.54
330	24.2	-3.6	0.44
340	24.5	-3.6	0.43
350	24.9	-3.8	0.42
360	24.4	-3.0	0.50
370	24.3	-2.7	0.54
380	23.2	-1.4	0.73
390	23.4	-1.3	0.74
400	22.3	0.0	1.00
410	21.5	1.0	1.26
420	21.8	0.9	1.23
430	22.5	0.4	1.10
440	22.8	0.3	1.08
450	23.4	-0.1	0.98
460	23.8	-0.3	0.93
470	24.3	-0.6	0.87
480	25.2	-1.3	0.74
490	25.2	-1.1	0.77
500	25.1	-0.9	0.82

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Horizontal Polarization

10 Meter Calibration, Broadband Dipole, 300 W

Model: SAS-530H Serial Number: 123 Date: 08-Jul-05

Frequency (MHz)	Antenna Factor (dB/m)	Gain (dBi)	Gain (Numeric)
160	17.5	-3.2	0.48
170	15.0	-0.1	0.97
180	15.7	-0.3	0.92
190	17.3	-1.5	0.71
200	18.9	-2.6	0.55
210	19.4	-2.7	0.54
220	20.3	-3.2	0.48
230	19.6	-2.1	0.61
240	19.3	-1.4	0.72
250	18.2	0.0	1.00
260	17.8	0.7	1.19
270	17.9	1.0	1.25
280	18.3	0.9	1.23
290	19.8	-0.3	0.93
300	20.8	-1.0	0.79
310	21.8	-1.7	0.67
320	22.7	-2.4	0.58
330	24.0	-3.4	0.46
340	24.4	-3.5	0.44
350	24.5	-3.4	0.46
360	23.9	-2.5	0.56
370	23.6	-2.0	0.63
380	22.4	-0.6	0.88
390	22.5	-0.4	0.91
400	21.1	1.2	1.31
410	20.5	2.0	1.59
420	20.4	2.3	1.70
430	20.9	2.0	1.59
440	21.2	1.9	1.55
450	22.0	1.3	1.35
460	22.6	0.9	1.23
470	22.5	1.2	1.31
480	23.7	0.2	1.04
490	23.5	0.6	1.14
500	23.5	0.7	1.18

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