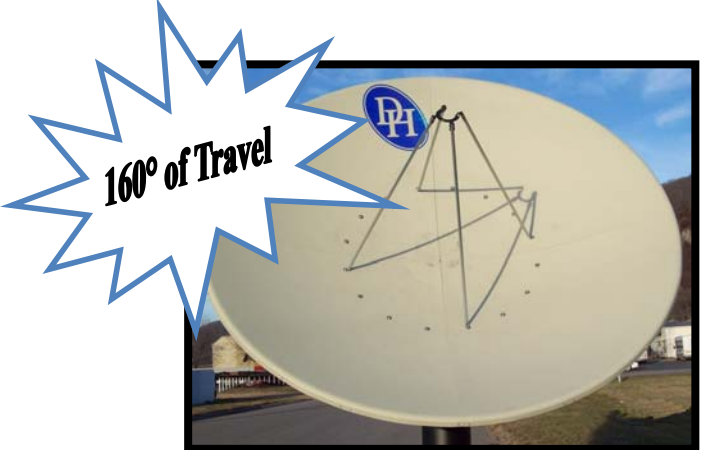


H-H Polar Mount 3.0m, 3.7m, 3.8m, 4.2m, 4.5m & 5.0m One Piece or Sectional Antenna Spec Motorized Power Declination Available



POWER DECLINATION H-TO-H

- Adjustable Frame for Declination
- 36 Volt, 2 Amp DC Declination Motor
- 25° of Declination Travel; 1 Min. 36 Sec. With 2 Amp Motor

* Power Declination Optional

H-TO-H POLAR SERIES MOUNT

- 60" Back Ring
- 8 Back Braces
- Travel Time of 4 Min, 49 Sec. to Cover the 160° Arc With 5 Amp Motor

Specifications	3.0m	3.7m	3.8m	4.2m	4.5m	5.0m
Antenna Sections	4	4/Optional 8	4	8	8	8
C Band Gain @ 4 Gig	40.6 db	42.3 db	42.5 db	43.5 db	43.9 db	44.3 db
Ku Band Gain @ 12 Gig	49.9 db	51.1 db	51.8 db	53.0 db	53.3 db	54.2 db
Aluminum Thickness	.085	.85	.090	.10	.110	.10
f/d Ratio	.3	.4	.78	.34	.3	.3
Wind Force at 60° at 90 MPH	3,020 lbs	4,200 lbs	4,600 lbs	5,975 lbs	6,600 lbs	7,800 lbs
First Side Lobe (E-Plane)	1.2°	2.4°	2.3°	2.1°	1.95°	1.1°
All Side Lobes	-26 db	-22 db	-22 db	-22 db	-22 db	-22 db
3db Beam Width (E-Plane)	0.5°	1.4°	1.4°	1.2°	1.2°	0.9°
F/L	36"	57.6"	57.6"	57.6"	57.6"	57.6"
Antenna Weight (One Piece)	102 lbs	180 lbs	198 lbs	241 lbs	277 lbs	315 lbs
Antenna Weight (Sectional)	110 lbs	4pc-165 lbs 8pc-192 lbs	214 lbs	281 lbs	317 lbs	355 lbs
Crate Dims w/Antenna Approximate Weight	62"x40"x66" 254 lbs	76"x36"x78" 4pc- 348 lbs 77"x47"x58" 8pc-500 lbs	79"x36"x81" 464 lbs	91"x38"x64" 544 lbs	92"x54"x67" 688 lbs	99"x52"x72" 741 lbs
H-to-H Mt Weight	441 lbs	441 lbs	441 lbs	441 lbs	441 lbs	441 lbs
Pallet Dims w/H-to-H Mt Approximate Weight	64"x64"x52" 456 lbs	64"x64"x52" 456 lbs	64"x64"x52" 456 lbs	64"x64"x52" 456 lbs	64"x64"x52" 456 lbs	64"x64"x52" 456 lbs

*Antenna sizes are nominal. *Custom crating available.* Dimensions and weights are approximate.

OPTIONAL:

- Hot Dip Galvanizing
- Non-Penetrating Roof Mount
- Electronics, Feedhorns, LNBS, Cabling
- Half/Full Dish De-icing

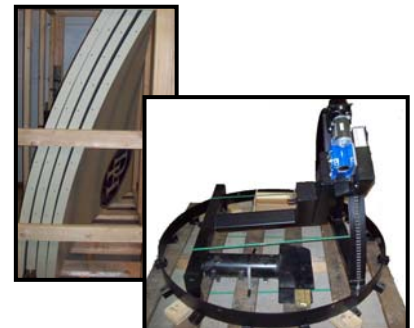


Sectional Antenna Rib Specifications

3.0m, 3.7m, 3.8m: 8 Ribs
4.2m, 4.5m, 5.0m: 16 Ribs

With today's innovative technology, DH is able to take our larger; one piece, spun aluminum antenna and cut them into sections. This allows for ease of handling, installation and shipping.

Made In The USA



Crating available for domestic or ISPM 15 international

H-H Polar Mount 3.0m, 3.7m, 3.8m, 4.2m, 4.5m & 5.0m One Piece or Sectional Antenna Spec Motorized Power Declination Available

103
3220
4.2m
DH Ant

Proof of Performance

Filename : 42N03220.103H FieldGuide: North American V 1.99
 Date: 09/05/2012 Software: 1.19
 Time: 16:51:39 Model: TURBO S2
 Location: Serial: 1674529
 Technician: LNB Model: LO=5.150 3.4-4.2
 Notes: Region: NE Continental US
 Level: dBm Switch: None

Satellite: 103.0 West / AMC1

Tran	Dnlink MHz	Freq MHz	Error MHz	Pol	Mod Type	Code Rate	Symbol Rate	Level dbm	IRD SiqQ	C/N db	Eb/No dB	Es/No dB	Lock Status	LNB Volts	LNB mA
B2A1	3760.040	1389.960	-0.035	Err	DvbS2	8-3/4I	29999	-28.9	99	15.0	14.5	16.3	LOCK	17.9	210
5 ID	3800.080	1349.920	-0.010	Err	DC2	7/8	29270	-27.1	99	14.9	14.4	16.2	LOCK	17.9	210
7	3840.000	1310.000	-0.086	Err	Dvb-S	3/4	26681	-27.4	100	15.5	15.0	16.8	LOCK	17.9	210
7	3840.080	1309.920	0.015	Err	Dvb-S	3/4	26681	-27.3	100	15.5	15.0	16.8	LOCK	17.9	210
10	3906.576	1243.424	0.014	Err	Dvb-S	3/4	6510	-32.2	96	13.4	12.9	14.7	LOCK	17.9	210
11	3915.072	1234.928	0.015	Err	Dvb-S	2/3	4410	-32.6	96	13.5	13.0	14.8	LOCK	17.9	210
10	3920.224	1229.776	0.014	Err	Dvb-S	5/6	3140	-34.3	91	12.0	11.5	13.3	LOCK	17.9	210
10	3924.224	1225.776	-0.010	Err	Dvb-S	5/6	2734	-35.3	95	12.7	12.2	14.0	LOCK	17.9	210
B2B1	3927.508	1222.492	-0.059	Err	DvbS2	Q-3/4	2450	-40.3	95	12.8	12.3	14.1	LOCK	17.9	210
K1A1	3960.052	1189.948	-0.007	Err	DvbS2	8-5/6	30000	-27.7	99	15.0	14.5	16.3	LOCK	17.9	210
15	4040.068	1109.932	0.015	Err	Dvb-S	3/4	26681	-25.4	101	15.9	15.4	17.2	LOCK	17.9	210
17	4040.000	1110.000	-0.073	Err	Dvb-S	3/4	26681	-25.3	101	15.8	15.3	17.1	LOCK	17.9	210
G1A1	4073.568	1076.432	0.000	Err	Dvb-S		3000	-33.1		0.0			Unlock	17.9	210
19	4081.068	1068.932	0.015	Err	Dvb-S	3/4	7230	-31.6	97	13.9	13.4	15.2	LOCK	17.9	210
B	4089.952	1060.048	-0.006	Err	DvbS2	8-2/3	5923	-33.7	100	15.3	14.8	16.6	LOCK	17.9	210
21	4120.000	1030.000	-0.056	Err	DvbS2	8-3/4I	30000	-26.8	99	14.9	14.4	16.2	LOCK	17.9	210
21	4120.044	1029.956	-0.013	Err	DvbS2	8-3/4I	30000	-26.7	99	14.9	14.4	16.2	LOCK	17.9	210

Proof of Performance

Filename : 42N03220.103V FieldGuide: North American V 1.99
 Date: 09/05/2012 Software: 1.19
 Time: 16:51:39 Model: TURBO S2
 Location: Serial: 1674529
 Technician: LNB Model: LO=5.150 3.4-4.2
 Notes: Region: NE Continental US
 Level: dBm Switch: None

Satellite: 103.0 West / AMC1

Tran	Dnlink MHz	Freq MHz	Error MHz	Pol	Mod Type	Code Rate	Symbol Rate	Level dbm	IRD SiqQ	C/N db	Eb/No dB	Es/No dB	Lock Status	LNB Volts	LNB mA
2	3740.000	1410.000	-0.097	Err	Dvb-S	7/8	29270	-26.2	98	14.5	14.0	15.8	LOCK	17.9	210
2	3740.088	1409.912	0.015	Err	Dvb-S	7/8	29270	-26.2	98	14.5	14.0	15.8	LOCK	17.9	210
6	3820.000	1330.000	-0.093	Err	DC2	3/4	29270	-25.5	100	17.4	16.9	18.7	LOCK	17.9	210
6 ID	3820.084	1329.916	0.014	Err	DC2	3/4	29270	-25.3	100	17.3	16.8	18.6	LOCK	17.9	210
8	3860.068	1289.932	-0.004	Err	DvbS2	8-5/6	30000	-27.9	100	15.4	14.9	16.7	LOCK	17.9	210
B2D1	3891.044	1258.956	-0.029	Err	DvbS2	8-2/3	9092	-34.8	100	15.5	15.0	16.8	LOCK	17.9	210
B2E1	3913.544	1236.456	0.000	Err	Dvb-S		6400	-45.6		0.0			Unlock	17.9	210
12	3940.076	1209.924	-0.010	Err	DC2	7/8	29270	-25.0	100	15.6	15.1	16.9	LOCK	17.9	210
13	3980.076	1169.924	0.015	Err	Dvb-S	7/8	26686	-24.9	100	17.3	16.8	18.6	LOCK	17.9	210
18	4060.072	1089.928	0.000	Err	DC2		29270	-35.6		0.0			Unlock	17.9	210
20	4091.068	1058.932	0.015	Err	Dvb-S	3/4	14035	-29.9	98	14.4	13.9	15.7	LOCK	17.9	210
B2I1	4109.044	1040.956	-0.032	Err	Dvb-S	3/4	14029	-31.3	96	13.5	13.0	14.8	LOCK	17.9	210
24	4196.064	953.936	0.014	Err	Dvb-S	2/3	2894	-34.0	100	16.8	16.3	18.1	LOCK	17.9	210

H-H Polar Mount 3.0m, 3.7m, 3.8m, 4.2m, 4.5m & 5.0m One Piece or Sectional Antenna Spec Motorized Power Declination Available

103
3220
4.5m
DH Ant

Proof of Performance

Filename : 453220.103HMD FieldGuide: North American V 1.99
 Date: 09/07/2012 Software: 1.19
 Time: 13:45:06 Model: TURBO S2
 Location: Serial: 1674529
 Technician: LNB Model: LO=5.150 3.4-4.2
 Notes: Region: NE Continental US
 Level: dBm Switch: None

Satellite: 103.0 West / AMC1

Tran	Dnlink MHz	Freq MHz	Error MHz	Pol	Mod Type	Code Rate	Symbol Rate	Level dbm	IRD SigQ	C/N db	Eb/No dB	Es/No dB	Lock Status	LNB Volts	LNB mA
B2A1	3760.040	1389.960	-0.037	Err	DvbS2	8-3/4	29999	-28.1	101	15.8	15.3	17.1	LOCK	17.9	210
5 ID	3800.080	1349.920	-0.011	Err	DC2	7/8	29270	-26.1	100	15.5	15.0	16.8	LOCK	17.9	210
7	3840.000	1310.000	-0.087	Err	Dvb-S	3/4	26681	-26.0	100	16.6	16.1	17.9	LOCK	17.9	210
7	3840.080	1309.920	0.014	Err	Dvb-S	3/4	26681	-26.0	100	16.7	16.2	18.0	LOCK	17.9	210
10	3906.576	1243.424	0.015	Err	Dvb-S	3/4	6510	-30.7	97	14.0	13.5	15.3	LOCK	17.9	210
11	3915.072	1234.928	0.014	Err	Dvb-S	2/3	4410	-31.6	96	13.4	12.9	14.7	LOCK	17.9	210
10	3920.224	1229.776	0.015	Err	Dvb-S	5/6	3140	-33.0	94	12.6	12.1	13.9	LOCK	17.9	210
10	3924.224	1225.776	-0.011	Err	Dvb-S	5/6	2734	-33.6	96	13.6	13.1	14.9	LOCK	17.9	210
B2B1	3927.508	1222.492	-0.061	Err	DvbS2	Q-3/4	2450	-39.1	97	14.0	13.5	15.3	LOCK	17.9	210
K1A1	3960.052	1189.948	-0.013	Err	DvbS2	8-5/6	30000	-27.4	100	15.5	15.0	16.8	LOCK	17.9	210
15	4040.068	1109.932	0.014	Err	Dvb-S	3/4	26681	-24.3	100	16.8	16.3	18.1	LOCK	17.9	210
17	4040.000	1110.000	-0.075	Err	Dvb-S	3/4	26681	-24.3	100	16.8	16.3	18.1	LOCK	17.9	210
G1A1	4073.568	1076.432	0.000	Err	Dvb-S	.	3000	-38.1	.	0.0	.	.	Unlock	17.9	210
19	4081.068	1068.932	0.014	Err	Dvb-S	3/4	7230	-31.4	98	14.4	13.9	15.7	LOCK	17.9	210
B	4089.952	1060.048	-0.007	Err	DvbS2	8-2/3	5923	-33.3	99	15.2	14.7	16.5	LOCK	17.9	210
21	4120.000	1030.000	-0.057	Err	DvbS2	8-3/4	30000	-25.6	100	15.6	15.1	16.9	LOCK	17.9	210
21	4120.044	1029.956	-0.012	Err	DvbS2	8-3/4	30000	-25.6	100	15.7	15.2	17.0	LOCK	17.9	210

Proof of Performance

Filename : 453D0.103VMD FieldGuide: North American V 1.99
 Date: 09/07/2012 Software: 1.19
 Time: 13:45:06 Model: TURBO S2
 Location: Serial: 1674529
 Technician: LNB Model: LO=5.150 3.4-4.2
 Notes: Region: NE Continental US
 Level: dBm Switch: None

Satellite: 103.0 West / AMC1

Tran	Dnlink MHz	Freq MHz	Error MHz	Pol	Mod Type	Code Rate	Symbol Rate	Level dbm	IRD SigQ	C/N db	Eb/No dB	Es/No dB	Lock Status	LNB Volts	LNB mA
2	3740.000	1410.000	-0.100	Err	Dvb-S	7/8	29270	-25.4	97	14.1	13.6	15.4	LOCK	17.9	210
2	3740.088	1409.912	-0.012	Err	Dvb-S	7/8	29270	-25.5	97	14.1	13.6	15.4	LOCK	17.9	210
6	3820.000	1330.000	-0.095	Err	DC2	3/4	29270	-24.8	100	17.6	17.1	18.9	LOCK	17.9	210
6 ID	3820.084	1329.916	-0.012	Err	DC2	3/4	29270	-24.9	100	17.6	17.1	18.9	LOCK	17.9	210
8	3860.068	1289.932	-0.013	Err	DvbS2	8-5/6	30000	-27.9	100	15.7	15.2	17.0	LOCK	17.9	210
B2D1	3891.044	1258.956	-0.031	Err	DvbS2	8-2/3	9092	-34.6	100	16.4	15.9	17.7	LOCK	17.9	210
B2E1	3913.544	1236.456	0.000	Err	Dvb-S	.	6400	-33.6	.	0.0	.	.	Unlock	17.9	210
12	3940.076	1209.924	-0.012	Err	DC2	7/8	29270	-24.5	100	15.4	14.9	16.7	LOCK	17.9	210
13	3980.076	1169.924	-0.010	Err	Dvb-S	7/8	26666	-24.1	100	17.7	17.2	19.0	LOCK	17.9	210
18	4060.072	1089.928	0.000	Err	DC2	.	29270	-34.8	.	0.0	.	.	Unlock	17.9	210
20	4091.068	1058.932	-0.011	Err	Dvb-S	3/4	14035	-28.6	100	15.7	15.2	17.0	LOCK	17.9	210
B2I1	4109.044	1040.956	0.000	Err	Dvb-S	.	14029	-39.3	.	0.0	.	.	Unlock	17.9	210
24	4196.064	953.936	0.014	Err	Dvb-S	2/3	2894	-34.6	100	16.8	16.3	18.1	LOCK	17.9	210