





Terrestrial Microwave Antenna System Products


7.125 - 7.750 GHz

Antenna Inputs. All antenna VSWR values are specified with CPR and PDR flanges. Other optional flanges may result in equal or slightly higher VSWR. Contact Andrew for details.
Pressurization. Feeds are pressurizable to 10 lb/in² (70 kPa).
ValuLine® Antennas. See page 127.

Type Number	Diameter ft (m)	RPE Number(s)	Regulatory Compliance					Gain, dBi	Beamwidth Degrees	Cross Pol. Disc., dB	F/B Ratio dB	VSWR max. (R.L., dB)		
			U.S. FCC 101	74	78	ETSI Class	ETSI Gain							
HPX HP  High Performance Antennas – Dual Polarized Antenna Inputs: CPR137G, PDR70, and UG-343B/U														
HPX4-70	4 (1.2)	2862	-	-	-	2	2	36.0	36.4	36.7	2.3	26	61	1.08 (28.3)
HPX6-70	6 (1.8)	2816	-	A	-	2	2	40.0	40.4	40.7	1.5	25	65	1.07 (29.4)
HPX8-70	8 (2.4)	2826	-	-	-	2	2	42.4	42.9	43.2	1.1	30	67	1.06 (30.7)
HPX10-70	10 (3.0)	2754	-	A	-	2	2	44.5	44.8	45.0	0.9	30	70	1.06 (30.7)
HPX12-70	12 (3.7)	2758	-	A	-	-	-	45.7	46.1	46.4	0.8	28	71	1.06 (30.7)
HPX15-70	15 (4.6)	2782	-	A	-	2	2	47.3	47.7	48.0	0.7	32	72	1.06 (30.7)
High Performance Antennas – Single Polarized Antenna Inputs: CPR137G, PDR70, and UG-343B/U														
HP6-70	6 (1.8)	2796	-	A	-	2	2	40.1	40.5	40.9	1.5	28	65	1.06 (30.7)
HP8-70	8 (2.4)	2751	-	A	-	2	2	42.6	43.0	43.3	1.1	30	67	1.06 (30.7)
HP10-70	10 (3.0)	2753	-	A	-	2	2	44.3	44.7	45.0	0.9	30	70	1.06 (30.7)
HP12-70	12 (3.7)	2756	-	A	-	2	2	46.3	46.7	47.1	0.7	30	71	1.06 (30.7)
HP15-70	15 (4.6)	2757	-	A	-	-	-	47.4	48.1	48.4	0.6	30	71	1.06 (30.7)
PXL PL  Standard Antennas – Dual Polarized Antenna Inputs: CPR137G, PDR70, and UG-343B/U														
PXL6-70	6 (1.8)	2740	-	B	-	-	-	40.0	40.4	40.7	1.5	30	48	1.07 (29.4)
PXL8-70	8 (2.4)	2828	-	-	-	1	2	42.4	42.9	43.2	1.1	30	50	1.06 (30.7)
PXL10-70	10 (3.0)	2663	-	A	-	-	-	44.5	44.8	45.0	0.9	30	52	1.06 (30.7)
PXL12-70	12 (3.7)	2752	-	A	-	-	-	45.7	46.1	46.4	0.7	30	54	1.06 (30.7)
Standard Antennas – Single Polarized Antenna Inputs: CPR137G, PDR70, and UG-343B/U														
PL4-70	4 (1.2)	2736	-	-	-	1	2	36.7	37.0	37.3	2.2	30	46	1.06 (30.7)
PL6-70	6 (1.8)	2658	-	B	-	-	-	40.1	40.5	40.9	1.5	30	48	1.06 (30.7)
PL8-70	8 (2.4)	2659	-	B	-	1	2	42.6	43.0	43.3	1.1	30	50	1.06 (30.7)
PL10-70	10 (3.0)	2660	-	A	-	1	2	44.3	44.7	45.0	0.9	30	52	1.06 (30.7)
PL12-70	12 (3.7)	2662	-	B	-	1	2	46.3	46.7	47.1	0.7	30	54	1.06 (30.7)
PL15-70	15 (4.6)	2745	-	B	-	-	-	47.7	48.1	48.4	0.6	30	55	1.06 (30.7)

7.125 - 7.750 GHz

Antenna Inputs. All antenna VSWR values are specified with CPR and PDR flanges. Other optional flanges may result in equal or slightly higher VSWR. Contact Andrew for details.
Pressurization. Feeds are pressurizable to 10 lb/in² (70 kPa).
ValuLine Antennas. See page 127.

Type Number	Diameter ft (m)	RPE Number(s)	Regulatory Compliance					Gain, dBi	Beamwidth Degrees	Cross Pol. Disc., dB	F/B Ratio dB	VSWR max. (R.L., dB)		
			U.S. FCC 101	74	78	ETSI Class	ETSI Gain							
HSX  High Performance Antennas - Super High Cross Polarization Discrimination – Dual Polarization Antenna Inputs: CPR112G, PDR84, and UG-52B/U														
HSX4-71	4 (1.2)	1548 1543	-	B	-	3	2	36.4	36.7	37.0	2.3	40	64	1.08 (28.3)
HSX6-71	6 (1.8)	1550 1554	-	A	-	3	2	40.0	40.3	40.6	1.5	40	72	1.08 (28.3)
HSX8-71	8 (2.4)	1556 1566	-	A	-	3	2	42.3	42.6	42.9	1.2	40	73	1.06 (30.7)
HSX10-71	10 (3.0)	1624 1622	-	A	-	3	2	43.9	44.2	44.4	1.0	40	75	1.06 (30.7)
HSX12-71	12 (3.7)	1626 1628	-	A	-	3	2	46.1	46.5	46.9	0.8	40	78	1.06 (30.7)
HSX15-71	15 (4.6)	1852 1858	-	A	-	3	2	47.7	48.1	48.5	0.6	40	78	1.06 (30.7)

Reference ETSI Document EN300833 for 3 to 60 GHz

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7.125 - 7.750 GHz

Antenna Inputs. All antenna VSWR values are specified with CPR and PDR flanges. Other optional flanges may result in equal or slightly higher VSWR. Contact Andrew for details.
Pressurization. Feeds are pressurizable to 10 lb/in² (70 kPa) except LBX Series 8 lb/in² (56 kPa).
ValuLine® Antennas. See page 127.


Type Number	Diameter ft (m)	RPE Number(s)	Regulatory Compliance				Gain, dBi	Beamwidth Degrees	Cross Pol. Disc., dB	F/B Ratio dB	VSWR max. (R.L., dB)
			U.S. FCC 101	U.S. FCC 74	U.S. FCC 78	ETSI Class					

HPX HP  **High Performance Antennas – Dual Polarization**
Antenna Inputs: CPR112G and PDR84

HPX6-71	6 (1.8)	3771	–	B	–	2	2	39.5	39.9	40.2	1.6	30	66	1.06 (30.7)
HPX8-71	8 (2.4)	2775	–	A	–	2	2	42.1	42.5	42.8	0.9	30	67	1.06 (30.7)

High Performance Antennas – Single Polarized
Antenna Inputs: CPR112G, PDR84, and UG-52B/U

HP4-71	4 (1.2)	2866	–	–	–	1	2	35.8	36.2	36.5	2.4	28	62	1.08 (28.3)
HP6-71	6 (1.8)	2800	–	–	–	2	2	39.7	40.0	40.3	1.5	30	66	1.06 (30.7)
HP8-71	8 (2.4)	2770	–	A	–	–	–	42.3	42.5	42.9	1.1	30	68	1.06 (30.7)
HP10-71	10 (3.0)	2772	–	A	–	3	2	44.1	44.5	44.8	0.9	28	70	1.06 (30.7)
HP12-71	12 (3.7)	2774	–	A	–	3	2	45.6	46.0	46.3	0.7	30	71	1.06 (30.7)
HP15-71	15 (4.6)	2783	–	–	–	2	2	47.5	47.8	48.2	0.6	30	71	1.06 (30.7)

PL  **Standard Antennas – Single Polarized Low VSWR**
Antenna Inputs: CPR112G, PDR84, and UG-52B/U

PL4-71	4 (1.2)	3718	–	–	–	1	2	36.2	36.5	36.8	2.2	30	45	1.10 (26.4)
PL6-71	6 (1.8)	2704	–	B	–	1	2	39.7	40.0	40.3	1.5	30	48	1.06 (30.7)
PL8-71	8 (2.4)	2700	–	B	–	1	2	42.3	42.5	42.9	1.1	30	50	1.06 (30.7)
PL10-71	10 (3.0)	2699	–	A	–	1	2	44.1	44.5	44.8	0.9	30	52	1.06 (30.7)
PL12-71	12 (3.7)	3710	–	B	–	1	2	45.6	46.0	46.3	0.7	30	54	1.06 (30.7)
PL15-71	15 (4.6)	2726	–	B	–	1	2	47.5	47.8	48.2	0.6	30	57	1.06 (30.7)

FPX FP  **Focal Plane Antennas – Dual Polarized**
Antenna Input: PDR70

FPX6-71	6 (1.8)	6141	–	–	–	1	2	38.8	39.2	39.5	1.5	25	58	1.08 (28.3)
FPX8-71	8 (2.4)	6143	–	A	–	2	2	41.8	42.1	42.3	1.1	26	65	1.07 (29.4)
FPX10-71	10 (3.0)	6145	–	A	–	2	2	43.9	44.2	44.3	0.9	26	67	1.06 (30.7)
FPX12-71	12 (3.7)	6147	–	A	–	2	2	45.5	45.9	46.0	0.7	28	69	1.06 (30.7)

Focal Plane Antennas – Single Polarized
Antenna Input: PDR70

FP4-71	4 (1.2)	6132	–	–	–	1	2	34.9	35.2	35.4	2.2	25	52	1.10 (26.4)
FP6-71	6 (1.8)	6133	–	–	–	1	2	38.8	39.2	39.5	1.5	25	58	1.07 (29.4)
FP8-71	8 (2.4)	6135	–	A	–	2	2	42.0	42.3	42.4	1.1	26	65	1.06 (30.7)
FP10-71	10 (3.0)	6137	–	A	–	2	2	44.1	44.4	44.5	0.9	26	67	1.04 (34.2)
FP12-71	12 (3.7)	6139	–	A	–	2	2	45.7	46.1	46.2	0.7	28	69	1.04 (34.2)

LBX  **Low Back Lobe Antennas – Dual Polarized**
Antenna Inputs: CPR137G and PDR70

Regulatory Compliance**

LBX6-71*	6 (1.8)	814-1	–	–	B	–	–	40.0	40.4	40.7	1.5	33	55	1.07 (29.4)
LBX8-71*	8 (2.4)	523-2	–	–	B	–	–	42.5	42.9	43.2	1.1	33	60	1.06 (30.7)
LBX10-71*	10 (3.0)	815-1	–	–	B	–	–	44.4	44.8	45.1	0.9	33	66	1.06 (30.7)
LBX12-71*	12 (3.7)	527-2	–	–	B	–	–	45.7	46.1	46.4	0.7	33	64	1.06 (30.7)

Reference ETSI Document EN300833 for 3 to 60 GHz
 *8 lb/in² (56 kPa) maximum **ANATEL Brazilian Telecommunications Agency, Regulation 1286 Category

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