

Pressurized - Low VSWR Air Dielectric Feeds

Facts & Features

- Low VSWR - Coaxial Feed.
- Feeds may be pressurized to 10 psi (70 kPa).
- Flange mates with type 7/8 in. EIA, 50 ohm. (Other types available on request.)
- GHA6A-21 meets U.S.F.C.C. Part 101.115, Standard "A" criteria.
- Most feeds are easily installed from the front of the antenna, while allowing inspection or replacement from the rear. Smooth polarization adjustment or change is obtained from the rear of the antenna.
- Antenna features independent azimuth and elevation adjustments.
- Gabriel antennas meet or exceed Standards EIA-195-C and EIA-222-F.
- Grid antenna designs offer lower windloading, typically reduced 40% or more from a comparable sized solid antenna without ice.
- Ultra High Performance shroud is lined with microwave absorber to reduce side and back radiation.
- Ultra High Performance antennas are supplied with Teflon® planar radomes which have superior shedding characteristics with dirt, water, ice and snow.



12 ft (3.7 m) High Performance Antenna

2.100 - 2.200 GHz

Electrical Specifications

Frequency GHz	Model Number	Diameter ft (m)	Standard	Gain at			Nominal Mid-Band Beamwidth degrees	XPD dB	F/B ratio dB	VSWR max.	(R.L. dB)
				Low	Mid dBi	High					

Grid - Plane Polarized - Low VSWR - Pressurized

2.100 - 2.200	GHA4-21A	4 (1.2)	--	25.7	26.0	26.2	8.0	32	33	1.15	(23.1)†
	GHA6-21A	6 (1.8)	B	29.4	29.7	29.9	5.2	34	36	1.10	(26.4)†
	GHA6A-21	6 (1.8)	A	29.6	29.9	30.1	4.9	34	39	1.10	(26.4)†
	GHA8-21	8 (2.4)	A	31.9	32.2	32.4	4.0	37	40	1.06	(30.7)†
	GHA10-21A	10 (3.0)	A	33.8	34.1	34.3	3.2	40	42	1.06	(30.7)†
	GHA12-21	12 (3.7)	A	35.4	35.7	35.9	2.7	40	44	1.06	(30.7)†

Standard - Plane Polarized - Low VSWR - Pressurized

2.100 - 2.200	RF4P-2J21ASE	4 (1.2)	B	25.9	26.1	26.3	8.0	30	36	1.15	(23.1)†
	RF6P-2J21BSE	6 (1.8)	A	29.5	29.8	30.0	4.9	30	39	1.10	(26.4)†
	RF8P-2J21ASE	8 (2.4)	A	32.0	32.3	32.5	4.0	30	40	1.06	(30.7)†
	RF10P-2J21ASE	10 (3.0)	A	33.9	34.2	34.4	3.2	30	43	1.06	(30.7)†
	RF12P-2J21ASE	12 (3.7)	A	35.5	35.8	36.0	2.7	30	45	1.06	(30.7)†

Ultra High Performance - Plane Polarized - Low VSWR - Pressurized

2.100 - 2.200	USP6-21ASE	6 (1.8)	A, 1	29.1	29.4	29.6	4.9	30	55	1.10	(26.4)†
	USP8-21BSE	8 (2.4)	A, 1	31.6	31.9	32.1	4.0	30	59	1.08	(28.3)†
	USP10-21BSE	10 (3.0)	A, 1	33.5	33.8	34.0	3.2	32	62	1.08	(28.3)†
	USP12-21SE	12 (3.7)	A, 1	35.1	35.4	35.6	2.7	32	63	1.08	(28.3)†

NOTE: A, B Meets U.S. Federal Communications Commission Rules and Regulations for Part 101.115 concerning antenna limitations.

1. Meets Industry Canada Radio Regulatory Standard SRSP-301.9.

† Improved VSWR version available on special order.

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