



sales@ara-inc.com



WEATHER RADAR SERIES PRODUCT SPOTLIGHT



Understanding weather patterns is an important tool for public safety and agriculture to ensure that the proper steps are being taken before storms. Properly monitoring weather patterns helps with preparation to limit damage and administer the proper size of response needed during and after major weather events. This is critical for public safety.

ARA designs and manufactures a complete line of Weather RADAR antenna systems to support weather surveillance and doppler radar applications. These can locate and calculate a storm's motion and type by detecting rain droplets.

ARA antenna systems operate in S-band, C-band, X-band, Ku-band, and Ka-band and meet RADAR suppliers most stringent requirements. Antenna feeds for all bands and reflectors, measuring from 2 ft to 28 ft in diameter, provide the necessary specifications for the operation of a high-performance weather RADAR system.

ARA

28 Riverside Drive, Pembroke, MA 02359
781-829-4740 | www.ara-inc.com

SEAVEY DIVISION



sales@ara-inc.com

Revised March 2021

FEATURES

- 2ft (0.6m) to 28ft (8.5m) antennas
- Dual Linear S, C, X, Ku and Ka Feeds
- Megawatt Power Handling
- Made in the USA

Model	Size	Frequency (GHz)	Polarization	Gain (dBi)	Description	Beamwidth at Midband	Band	VSWR Nominal	Side Lobe	Xpol
C0925-800C	1.2m (4ft)	13.91 ± 50 Mhz	Dual Linear Orthogonal	44	WR-75	1°	Ku	< 1.3:1	-25	>38
C0925-810C	28in	35.56 ± 50 Mhz	Dual Linear Orthogonal	44	WR-28	1°	Ka	< 1.3:1	-25	>32
C0920-830C	14ft	2.7 - 2.9	Dual Linear Orthogonal	38	WR-284	1.9°	S	1.38:1	-25	>40
C1055-800	7.3m (24ft)	2.7 - 3.0	Dual Linear	43	WR-284	< 1.2°	S	1.3:1	-27	>34
C1160-800	8.6m (28ft)	2.7 - 3.0	Dual Linear Orthogonal	44	WR-284	1°	S	1.3	-29	>32
C1438-800	6.1m (20ft)	3.5 - 3.6	Dual Linear	45	WR-229	< 1°	S	1.25:1	-27	>33
C1627-800	7m (23ft)	5.25 - 5.37	Dual Linear	47.5	WR-187	< 0.68°	C	1.25:1	-27	>35
AS-146-54	3.7m (12ft)	5.4 - 5.7	Dual Linear	44	WR-187	1.1°	C	1.5:1	-26	>32
C0920-800C	4.3m (14ft)	5.4 - 5.7	Single Linear	44	WR-187	< 1°	C	1.25:1	-26.5	>32
C1256-820	3.7m (12ft) 2pc design	5.4 - 5.8	Dual Linear	44	WR-187	< 1°	C	1.25:1	-30	>32
C1614-800	6.1m (20ft)	5.4 - 5.8	Dual Linear	47.5	WR-187	< 0.68°	C	1.25:1	-27	>32
C1605-800	2.4m (8ft)	5.42 - 5.825	Dual Linear	40	WR-187	< 1.7°	C	< 1.3:1	-27	35
C0729-810A	4.3m (14ft)	5.5 - 5.7	Dual Linear Orthogonal	44	WR-187	< 1.1°	C	1.25:1	-26.5	>35
C0861-800D	4.3m (14ft)	5.5 - 5.7	Dual Linear Orthogonal	45	WR-187	< 1°	C	1.25:1	-30	>35

This is not a comprehensive list. Please contact us to learn about additional offerings and customizations.

The data described herein is subject to licensing under the International Traffic Arms Regulations (ITAR) 22 CFR Parts 120-130. This data sheet has been released into the public domain in accordance with these regulations.

ARA

28 Riverside Drive, Pembroke, MA 02359
781-829-4740 | www.ara-inc.com


SEAVEY DIVISION



sales@ara-inc.com

Revised March 2021

FEATURES

- 2ft (0.6m) to 28ft (8.5m) antennas
- Dual Linear S, C, X, Ku and Ka Feeds
- Megawatt Power Handling
- Made in the USA 

Model	Size	Frequency (GHz)	Polarization	Gain (dBi)	Description	Beamwidth at Midband	Band	VSWR Nominal	Side Lobe	Xpol
C0861-810	4.3m (14ft)	5.5 - 5.7	Dual Linear	45	WR-187	< 1°	C	1.25:1	-28	>28
C0861-850	4.3m (14ft)	5.5 - 5.7	Single Linear	45	WR-187	< 1°	C	1.25:1	-30	>32
C1028-815	4.3m (14ft) Heavy Duty	5.6 - 5.8	Dual Linear Enhanced, No Radome Required	45	WR-187	< 1°	C	1.25:1	-28 (-30 @ 5.7)	45 @ 5.7
C0706-800A	2.4m (8ft)	9.2 - 9.4	Dual Linear	44	WR-90	1°	X	1.25:1	-26	>30
C0706-810C	2.4m (8ft)	9.2 - 9.4	Dual Linear	44	WR-90	1°	X	1.25:1	-27	>30
C1017-800	1m (39in)	9.3 - 9.5	Single Linear	36.5	WR-90	2°	X	1.25:1	-26	>32
C1017-820	1m (39in)	9.3 - 9.5	Dual Linear	36.5	WR-90	2°	X	1.25:1	-26	>32
C2013-800	1.5m (5ft)	9.3 - 9.5	Dual Linear	40	WR-90	1.5°	X	1.25:1	-25	35
C0824-800A	.6m (24in)	9.345	Dual Linear	32.5	WR-90	3.5°	X	1.25:1	-25	>30
C0824-810A	1.2m (4ft)	9.345	Dual Linear	38.5	WR-90	1.8°	X	1.25:1	-25	>32
C1258-810	16ft	9.4 - 9.6	Dual Linear Orthogonal	48	WR-90	0.5°	X	1.3:1	-28	>35
C0817-810A	1.8m (6ft)	9.4	Dual Linear	42	WR-90	1.4°	X	1.25:1	-25	>38
C0824-820C	1.2m (4ft)	9.55	Dual Linear	38.5	WR-90	1.8°	X	1.25:1	-25	>33
C0601-800	28in	35.55 - 35.95	Dual Linear	44	WR-28	1°	Ka	< 1.4:1	-25	>32

This is not a comprehensive list. Please contact us to learn about additional offerings and customizations.

The data described herein is subject to licensing under the International Traffic Arms Regulations (ITAR) 22 CFR Parts 120-130. This data sheet has been released into the public domain in accordance with these regulations.

ARA

28 Riverside Drive, Pembroke, MA 02359
781-829-4740 | www.ara-inc.com

SEAVEY DIVISION