



sales@ara-inc.com



MULTIBAND FEED AND ANTENNA THREAT SERIES

ARA has a wide variety of Prime-Focus, Offset, Gregorian, and Cassegrain feeds and antennas for multi-band applications. These multi-band feeds are designed to minimize phase center movement. This helps to better focus the feed within the reflector for optimal gain, providing the highest possible EIRP and G/T.

ARA designs, simulates, manufactures, and tests all feed solutions in-house. The product family can support the most demanding threat emitter requirements to include high power handling. ARA utilizes its fully staffed, Middleborough, MA outdoor test range to go beyond bench tests to ensure all specifications are met.

ARA also offers reflectors, positioners, and controllers to support antenna subsystems. These subsystems support high power radar and threat emitter systems.

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



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FEATURES

- Multiple Frequencies in a Single Feed
- Dual Polarization for Both Transmit and Receive
- Motorized or Non-motorized
- Optional Reflectors
- Optional Positioners and Controllers
- Made in the USA

Revised October 2020

Multiband Threat Frequencies (GHz)

| Model | P-Band | L-Band | S-Band | C-Band | X-Band | Ku-Band | K-Band | Ka-Band |
|------------|---------------|-----------|---------------|-----------|---------------|-----------|--------|---------|
| 0239-800K | 670 - 850 MHz | | | 4.9 - 5.1 | | | | |
| 0240-800H | | 1.0 - 1.1 | | | 6.9 - 10.02 | | | |
| C0730-520 | | | 2 - 3.6 | | | 6 - 18 | | |
| 0051-800 | | | Rx: 2.0 - 3.5 | | Tx: 6.0 - 9.9 | | | |
| 9244-800C | | | 2 - 4 | | 8 - 12 | 14 - 18 | | |
| C0730-800P | | | 2 - 3.6 | | 6.5 - 10 | 6 - 18 | | |
| C0911-860B | | | 1.5 - 2.5 | | 7.7 - 8.5 | | | |
| C1835-800C | | | 2 - 4 | | 8.2 - 12.4 | | | |
| 9170-800 | | | 2 - 4 | | 8 - 12.4 | 12 - 18 | | |
| C0731-800R | | | | 3.6 - 6.5 | | 10 - 18 | | |
| C1238-800 | | | | 4.0 - 8.0 | | 12.4 - 18 | | |
| C1836-800D | | | | 4 - 8.2 | | 12.4 - 18 | | |
| C0730-509 | | | | | 6.5 - 10 | | | |
| 0452-810F | | | | | 9.3 - 10.0 | | | 34 - 36 |
| 0051-820 | | | | | | 6 - 18 | | |

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| Multiband Threat | | | |
|------------------|---|---|---|
| Model | Power | Polarization | VSWR |
| 0239-800K | 0.67 - 0.85 RHCP, 50KW Peak, 140W Avg 4.9 - 5.1 GHz Slant 45°, 1 MW Peak, 1 kW Avg | RHCP/ Slant 45° | 2.0:1 |
| 0240-800H | 1.0 - 1.1: 2 kW Peak, 120 W Avg 6.9 - 7.1: 800 W CW 7.6 - 9.6: 250 kW Peak, 250 W Avg 9.99 - 10.02: 500 W CW | Slant 135°/ Slant 45° | 2.0:1 |
| C0730-520 | S-Band: 2 kW Peak, 120 W Avg Ku-Band: 300 W CW | Linear | 2.0:1 |
| 0051-800 | 4 kW Peak, 250 W Avg | Rotatable Vertical/Horizontal/±45° | 2.0:1 |
| 9244-800C | | Dual Linear | S-Band (Quad Ridge): 2.0:1 X and Ku-Band: 1.5:1 |
| C0730-800P | 1/ Prime Focus: 2 kW Peak, 120 W Avg 2/ Cassegrain: 2 kW Peak, 120 W Avg 3/ Prime Focus: 300 W CW | 1/ Prime Focus: V/± Slant 45°/H Selectable 2/ Cassegrain: Orthogonal to Port 1 3/ Prime Focus: V/± Slant 45°/H Selectable | 2.0:1 |
| C0911-860B | S-Band: 40W CW X-Band: 500W CW | Dual CP X and S Bands | |
| C1835-800C | 2 kW Peak 500 W CW | Port 1: V/± Slant 45°/H Selectable Port 2: Orthogonal to Port 1 | |
| 9170-800 | Dual Polarized Horns: 2 kW Peak, 1μS Pulsewidth; 80W Avg Monopulse Feed: 1 W Avg | 2 - 4 GHz Dual Linear X-Band Monopulse 5 Horn, Linear X-Band 8-12 GHz Dual Linear Ku-Band 12-18 GHz Dual Linear | 2 - 4 GHz = 2.0:1 Max X-Band Monopulse = 2.0:1 Max X-Band 8-12 GHz = 2.0:1 Max Ku Band 12-18 GHz = 2.0:1 Max |
| C0731-800R | Port 1: 2 kW Peak, 120 W Avg Port 2: 2 kW Peak 120 W Avg | Port 1: V/± Slant 45°/H Selectable Port 2: Orthogonal to Port 1 | 2.0:1 |
| C1238-800 | 5 kW @ 6% Duty Cycle 500 W CW Min | | 2.0:1 |
| C1836-800D | 2 kW Peak 500 W CW | Port 1: V/± Slant 45°/H Selectable Port 2: Orthogonal to Port 1 | |
| C0730-509 | 2 kW Peak 120 W Avg | Linear | 2.0:1 |
| 0452-810F | X-Band: 5 kW Peak, 350 W CW Ka-Band: 2 kW Peak, 15% Duty | | |
| 0051-820 | 250 W CW | Linear Adjustable Vertical/Horizontal | 2.0:1 |

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