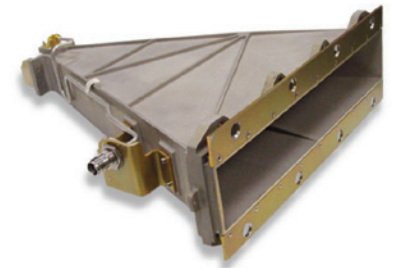




**L3HARRIS™**  
FAST. FORWARD.

# Q137 SERIES HORN ANTENNAS

L3Harris' Q137 Series of antennas are rectangular, dual-ridge horns designed for electronic support measures (ESM) and electronic warfare (EW) applications. They are suitable for a wide variety of applications in the 2-6 gigahertz band. The antenna elements have a wide angle of view in the azimuth plane and a moderate angle of view in the elevation plane. All units can be provided independently or as matched sets with the phase and amplitude tracking shown below. L3Harris can also provide the Q137 Series pre-assembled into interferometer arrays with customer specified spacing. In addition, the Q137 Series can be adapted for the reception of many polarizations with the addition of L3Harris model Q156 Series of polarizer grids. These lightweight, multilayer grids are specifically designed for interface with the Q137 Series and provide slant-45 polarization.



## KEY FEATURES

- > Designed for ESM/EW applications
- > Wide angle of view in the azimuth plane
- > Phase and amplitude tracking options available
- > Can be used in fixed site, ground or airborne

**For further details and specifications, contact the factory at [antenna.info@L3Harris.com](mailto:antenna.info@L3Harris.com)**

ELECTRICAL			
Antenna gain (dBi)	Frequency (GHz)		
	2	4	6
<b>Peak</b>	7.5	12	12.5
<b>+/-40° AZ @ 0° EL</b>	5.1	7.7	7.4
<b>+/-40° EZ @ 0° AZ</b>	5.1	7.7	9.0
<b>Back-lobe, max (-dBc)</b>	8	23	26
<b>Polarization</b>	Horizontal		
<b>Phase tracking</b>			
Within +/-40° AZ and +/-10° EL	10° peak-to-peak		
Within any 100 MHz	2° peak-to-peak		
Within 10° AZ	94% <2° peak-to-peak, 100% <3.5° peak-to-peak		
Within 5° EL	99% <2° peak-to-peak, 100% <2.8° peak-to-peak		
Polarization	2° peak-to-peak		
Relative to gold standard	+/- 6°		
VSWR, max	2.5:1 for 100%, 2.0:1 for 85%		
<b>Amplitude tracking</b>			
Within +/- 40° AZ and +/- 10° EL	2 dB peak-to-peak		
Within +/- 65° AZ and +/- 10° EL	4 dB peak-to-peak		
Gain at -90°±65° and 65°±90 AZ comparative to any antenna gain at 25° and -25° AZ for +/- 10° EL	5 dB min 4.3 dB min below 2.5 GHz		
<b>Squint</b>	2° max		
<b>Power handling</b>	+34 dBm up to 6 GHz, +28 dBm above 6 GHz		

### Q137 Series Horn Antennas

© 2021 L3Harris Technologies, Inc. | 06/2021 | 60964 | EC

Nonexport-controlled Information

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



**L3HARRIS™**  
FAST. FORWARD

1025 W. NASA Boulevard  
Melbourne, FL 32919