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Q172
BROADBAND VEHICULAR ANTENNA

The Q172 Antenna was designed to meet the stringent electrical and mechanical requirements of electronic warfare or communication applications. Two broadband antenna apertures are housed within a high-impact radome, which is mounted to a heavy-duty spring assembly. The mounting interface is designed to meet the standard vehicle mount (CECOM dwg A3207507).

The low-frequency aperture provides omnidirectional coverage at the lower very high frequency bands with high gain performance by using an efficient matching network. The upper frequency aperture is comprised of stacked dipole elements located near the top of the assembly avoiding potential blockage by the vehicle. The Q172 uses a proven assembly based on the Q71 JTIDS antenna, which has undergone full environmental testing including the stringent “oak beam” impact tests. The design also incorporates a unique spring damper assembly that prevents the antenna from oscillating after an impact.

	Port 1	Port 2
ELECTRICAL		
Frequency range	20-100 MHz	100-550 MHz
VSWR	3.5:1	2.5:1
Gain	-18 dBi to -3 typical	-3 dBi typical
Pattern		
Azimuth	Omnidirectional	Omnidirectional
Elevation	Figure eight	Figure eight
Power handling	50 W CW	200 watts CW
MECHANICAL		
Connector	BNC female	N female
Weight	16 lbs	
Finish	CARC color green or desert sand	
ENVIRONMENTAL		
Operating temperature	-40° C to +55° C	

KEY FEATURES

- Counter improvised explosive device antenna
- Low-band very high frequency through ultra-high frequency
- Omnidirectional azimuth radiation pattern
- Power handling up to 200-watt continuous waveform

For further details and specifications, contact the factory at antenna.info@L3Harris.com

Q172 Broadband Vehicular Antenna

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.

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