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AS-49063 MONOPOLE BLADE ANTENNA

The AS-49063 flew on the Theatre High Altitude Area Defense (THAAD) missile. It was used in support of the flight termination system. It is a monopole blade antenna encased on fused silica. This antenna type is inherently linear. The materials used in the construction of the antenna were chosen to minimize the effects of the severe environments.

A resin quartz composite heat shield was mounted to the antenna to make the antenna flush with the heat shield of the vehicle. The mounting flange can be modified to meet the mounting requirements of a particular vehicle.

ELECTRICAL					
Frequency range	408 – 430 MHz				
VSWR	2.0:1, max				
Gain, peak	-3 dBi, min*				
Gain, over 170°	-10 dBi, min*				
Pattern shape	Omnidirectional				
Polarization	Linear				
Bandwidth	1 MHz				
MECHANICAL					
Connector	SMA female				
Weight	0.86 lbs (390 gm)				
ENVIRONMENTAL					
Temperature	-51 deg F (-46 deg C), +239 deg F (+115 deg C), 120 hour cycling				
Altitude	90 torr (50,000 feet)				
Humidity	+10 deg C to +50 deg C, 98%, 72 hours				
Acceleration	+70 G, all axes				
Shock	Triaxial				
Freq	20-2000 Hz				
G level	40-2500 G				
Vibration (per 299507)	Freq. (Hz)	G2	dB/oct	Grms	Duration/Axis
	20	0.005			
	20-600		+4.2		
	600-1000	0.6			
	1000-1500		+3.8		
	1500-2000	1.0		35.87	3 min/axis

*Typical gain values with antenna mounted on a 4' x 4' flat ground plane. Performance may vary depending on ground plane/vehicle size and dia.



KEY FEATURES

- > Tunable monopole blade
- > Rugged construction encased in fused silica
- > Flush mountable
- > Ideal for extreme environment and space type applications

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

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Nonexport-controlled Information

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