



L3HARRIS™
FAST. FORWARD.

H-101 RF TRANSMITTER

Innovative solution to challenging radio frequency (RF) applications

L3Harris' RF product portfolio offers innovative solutions to challenging applications. These products are used as building blocks to integrate new RF systems, such as radars and direction finding systems, or to modernize aging systems that are experiencing obsolescence issues.

The H-101 RF Transmitter for UHF signals uses industry-proven transistor technology to produce a power peak greater than 7 kW. Based upon its robust solid-state design, this transmitter will:

- > Improve the overall array efficiency
- > Reduce array failure rate
- > Provide a wide range of transmit capability with its high duty factor and high power

The transmitter module features manual phase and output power calibration with external controls to improve transmitter array performance. The transmitter module is air-cooled, simplifying the logistics of a large-array implementation. The transmitter's modular design supports either depot or site maintenance models.

Typical applications for the L3Harris solid-state UHF transmitter module include:

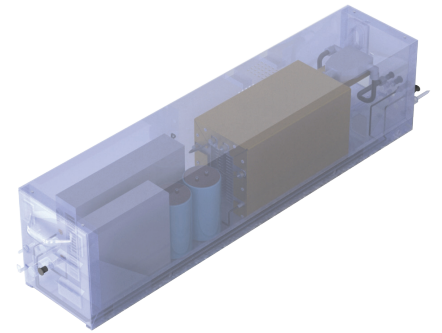
- > UHF/D-TV
- > FM/HDR/DAB radios
- > Cell base stations
- > Voice and data network stations
- > Air navigation beacons
- > Instrument landing systems

ELECTRICAL SPECIFICATIONS

PARAMETER	MIN	MAX	UNIT
Operating frequency	437	447	MHz
Radio frequency (RF) output			
Peak power output	7		kW
Peak power output sensitivity (to changes in steering and transmit pulse)		1	dB
Frequency response (gain variation)		0.75	dB
Phase response		1	dB
Phase adjustment range	360		deg
Harmonic content		-50	dBc
Spurious content		-60	dBc

PARAMETER	MIN	TYPICAL	MAX	UNIT
Power requirements				
AC line frequency		60		Hz
AC line voltage	110		125	VAC
Environmental				
Cooling air temperature	47		53	°F
Transmitter weight			52	Lbs

L3Harris reserves the right to change specifications without notice.



KEY FEATURES

- > Modular design
- > 360° output phase adjustment
- > Gain adjust range over 3 dB
- > High efficiency
- > High duty factor capability
- > Local forward and reflected power monitoring

H-101 RF Transmitter

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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.



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