

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

L3HARRIS

L3Harris AM-7223

The L3Harris AM-7223 is a ruggedized amplifier designed for military communication systems. It enhances signal strength for reliable long-range communication in demanding environments.



MODEL

L3Harris AM-7223

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AM-7223

LISTING

<https://aumictechlabs.com/products/am-7223-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The L3Harris AM-7223/URC is a military-grade RF amplifier engineered to strengthen signal transmission in demanding operational environments. It delivers enhanced signal strength for reliable long-range communication within integrated military communication systems. The amplifier incorporates multiple printed circuit board assemblies and a tube assembly, supported by comprehensive technical documentation and built-in diagnostic capabilities. Technical Specifications The AM-7223/URC (Part Number 10086-0000) features a modular PWB architecture including a Rectifier/Bleeder assembly that generates +2000 Vdc for the tube assembly, a Power Control PWB, Micro Control PWB, Front Panel PWB, DC Control PWB, and Low Voltage Filter Assembly. A DC Inverter option is available. The equipment operates at high internal voltages requiring strict safety protocols during maintenance and troubleshooting. Key Features Tube-based RF amplification architecture for military communication systems Rectifier/Bleeder PWB Assembly producing +2000 Vdc output for tube operation Microcontroller-based control via dedicated Micro Control PWB Integrated Low Voltage Filter Assembly for power conditioning

Built-in Test (BIT) support - both manual and automatic diagnostic procedures Manual and automatic tuning capabilities DC Inverter option for extended system flexibility Modular PWB design enabling field-level component replacement after proper power discharge Typical Applications The AM-7223/URC works with integration into military communication systems requiring high-power RF amplification in field-deployed or fixed installations with environmental stress. Compatibility & Integration Integration is supported within military communication platforms. Operation and maintenance procedures are documented in Technical Order 31R2-2URC-101, while depot-level maintenance guidance is provided in T.O. 31R2-2URC-103. Personnel must observe critical safety precautions including primary power disconnection, capacitor discharge, and proper grounding of remote control units to avoid hazardous chassis voltages.

AM7223 Characteristics / Specifications

PARAMETER	VALUE
Model	AM-7223
Manufacturer	Harris Corporation (L3Harris lineage)
Instrument Type	HF Linear Power Amplifier
Series	RF-355 / AM-7223 / AN/URC-119
Alias	AM-7223; RF-355; RF-7223L; 10086-0000; Harris AM-7223
Frequency Range	1.6 MHz to 29.9 MHz
Impedance	50 ohm
RF Output PEP	500 W PEP two-tone when driven by the companion transceiver
RF Output CW	250 W continuous average with CW or single-tone input
RF Drive	about 65 W for full power output (Harris RF-355 class listings)
Tune Time	automatic tune 10 s maximum
Circuit	solid state
Control	automatic or manual
AC Input NSN	110 Vac nominal, single phase
DC Input NSN	28 Vdc nominal
Height NSN	7.000 in nominal
Width NSN	16.500 in nominal
Length NSN	19.500 in nominal
Weight Listing	about 78 lb (Harris RF-355 class listings)
Installation	rack
NSN	5996-01-162-3312
Cage Harris	14304
Technical Order	31R2-2URC-101 (and 31R2-2URC-103 reference)
Host Set	AN/URC-119(V) with RT-1446 / RF-350
Self Test	built-in self-test (URC-119 training)

PARAMETER	VALUE
Protection	cooling-air and related shutdowns (RF-355 class descriptions)
Connectors	RF input/output 50 ohm; AC/DC power; control to RT-1446
Duty	SSB PEP and CW within 500 W / 250 W ratings
JETDS Twin	AM-7223/URC is the Joint Electronics Type Designation of this amplifier
Related AM72	AM-7224/URC isadifferent LPA used with PP-7913/URC Notes Specs from NSN 5996-01-162-3312 (1.6-29.9 MHz, 50 ohm, 110 Vac / 28 Vdc, 7 × 16.5 × 19.5 in) and Harris RF-355 / AM-7223 listings (500 W PEP, 250 W CW, 65 W drive, 10 s tune). Confirm 120 Vac cable vs 28 Vdc and that this unit is AM-7223 not AM-7224.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

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PARAMETER	VALUE
Cage Harris	14304
Technical Order	31R2-2URC-101 (and 31R2-2URC-103 reference)
Host Set	AN/URC-119(V) with RT-1446 / RF-350

Specifications

PARAMETER	VALUE
Self Test	built-in self-test (URC-119 training)
Protection	cooling-air and related shutdowns (RF-355 class descriptions)
Connectors	RF input/output 50 ohm; AC/DC power; control to RT-1446

Specifications

PARAMETER	VALUE
Duty	SSB PEP and CW within 500 W / 250 W ratings
JETDS Twin	AM-7223/URC is the Joint Electronics Type Designation of this amplifier
Related AM7224	AM-7224/URC isadifferent LPA used with PP-7913/URC

Notes

Specs from NSN 5996-01-162-3312 (1.6-29.9 MHz, 50 ohm, 110 Vac / 28 Vdc, 7 x 16.5 x 19.5 in) and Harris RF-355 / AM-7223 listings (500 W PEP, 250 W CW, 65 W drive, 10 s tune). Confirm 120 Vac cable vs 28 Vdc and that this unit is AM-7223 not AM-7224.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.