

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 1, 2026

AEROFLEX

IFR Aeroflex NAV-2000R-80 NAV/COMM Signal Generator

IFR / Aeroflex NAV-2000R-80 NAV/COMM Signal Generator The IFR / Aeroflex NAV-2000R-80 is an avionics NAV/COMM RF signal generator for testing ADF, Marker Beacon, VOR, Localizer, Glideslope, and HF/VHF/UHF COMM receivers. The -80 version provides extended RF output power from about -120/-127 dBm to +7 dBm (versus 0 dBm maximum on -50 units). DSP-based generation supports Morse Code Ident, two-tone modulation, Marker Beacon pulsed tones, and optional SELCAL (ARINC 714-6). Full GPIB control supports bench and ATE use. The IFR / Aeroflex NAV-2000R-80 is an avionics NAV/COMM RF signal generator for testing ADF, Marker Beacon, VOR, Localizer, Glideslope, and HF/VHF/UHF COMM receivers. The -80 version provides extended RF output power from about -120/-127 dBm to +7 dBm (versus 0 dBm maximum on -50 units). DSP-based generation supports Morse Code Ident, two-tone modulation, Marker Beacon pulsed tones, and optional SELCAL (ARINC 714-6). Full GPIB control supports bench and ATE use. Avionics shop and ATE testing of navigation and communication LRUs; VOR/ILS/ADF receiver checkout; COMM receiver AM tests including HF two-tone and SELCAL; NAV converter stimulus with front-panel VIDEO LEVEL control.

No photo

MODEL

Aeroflex 2000R-80

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

2000R-80

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

Features & description

From manufacturer datasheet

Features

- Modes: VOR, LOC, GS, MB, COMM, ADF, SELCAL • Frequency 150 kHz to 450 MHz; 10 Hz resolution
- Output power (-80): -120 to +7 dBm (datasheet); resolution 0.1 dB • DSP generation; electroluminescent display; hot keys for bearing and DDM • Store/Recall: 49 setups per mode (294 total class) • Morse Code Ident programmable (VOR, LOC, ADF) • Full GPIB; Collins 479S-6A command-set compatibility available on related -70 variants • Two-tone COMM modulation; Marker Beacon outer/middle/inner tones

2000R Characteristics / Specifications

PARAMETER	VALUE
Model	NAV-2000R-80 (NAV2000R-80-110 / -220)
Manufacturer	IFR / Aeroflex / VIAVI
Instrument Type	NAV/COMM avionics signal generator
Frequency Range	150 kHz to 450 MHz
Frequency Resolution	10 Hz
Level Resolution	0.1 dB
Harmonics	less than -30 dBc
Range	0 to 99%; resolution 0.01%
Tone Frequency Accuracy	+/-0.005%
THD	less than 0.1% Mode Highlights
VOR	9960 Hz, 30 Hz reference/variable, 1020 Hz Ident
Localizer / Glideslope	90/150 Hz with DDM or % display; DDM resolution 0.001
Marker Beacon	400 / 1300 / 3000 Hz with pulsed ident
ADF / COMM	tones 10 Hz to 18 kHz; COMM two-tone and SELCAL
Audio Output	about 2 VAC peak into 600 ohms (datasheet) General
Power	100-240 VAC, 48-440 Hz
Operating Temperature	7 to 40 C; RH less than 90%
Weight	34 lb (15.42 kg)
Size	17.4 × 5 × 19.3 in (44.2 × 13.2 × 49 cm) Operational Notes Select -110 or -220 AC mains version as labeled. Use aircraft-appropriate RF levels and attenuators. Confirm SELCAL and Collins GPIB options if required by the procedure.
Modes	VOR, LOC, GS, MB, COMM, ADF, SELCAL
Output power (-80)	-120 to +7 dBm (datasheet); resolution 0.1 dB
Store/Recall	49 setups per mode (294 total class)

General Specifications & Supplementary Characteristics

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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.

Specifications

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Manufacturer	IFR / Aeroflex / VIAVI
Instrument Type	NAV/COMM avionics signal generator
Frequency Range	150 kHz to 450 MHz
Frequency Resolution	10 Hz

Output Level (-80): -120 to +7 dBm (published ordering table); related docs also cite -127 to +7 dBm class

Level Resolution: 0.1 dB

Harmonics: less than -30 dBc

Non-harmonics: less than -60 dBc (offset greater than 5 kHz)

Amplitude Modulation

Range: 0 to 99%; resolution 0.01%

Accuracy (10 to 95%, sum of tones): +/-2% of indication

Tone Frequency Accuracy: +/-0.005%

THD: less than 0.1%

Mode Highlights

Specifications

PARAMETER	VALUE
VOR	9960 Hz, 30 Hz reference/variable, 1020 Hz Ident
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General

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Operational Notes

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
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<https://aumictechlabs.com>

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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.