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Data Sheet
August 13, 2026

IFR

IFR 2030 10kHz to 1.35GHz Signal Generator

IFR / Marconi / Aeroflex 2030 Synthesized Signal Generator 10 kHz to 1.35 GHz The IFR/Marconi 2030 is the 10 kHz to 1.35 GHz member of the 2030-series synthesized signal generators (2031 to 2.7 GHz; 2032 to 5.4 GHz). It provides AM, FM, and phase modulation, LF output, sweep capability, GPIB remote control, and amplitude typically from -144 dBm to +13 dBm (Option 003 raises maximum output). Non-volatile store/recall speeds repetitive setups. RF component characterization; radio communications system test; receiver sensitivity and modulation tests; ATE via GPIB. The IFR/Marconi 2030 is the 10 kHz to 1.35 GHz member of the 2030-series synthesized signal generators (2031 to 2.7 GHz; 2032 to 5.4 GHz). It provides AM, FM, and phase modulation, LF output, sweep capability, GPIB remote control, and amplitude typically from -144 dBm to +13 dBm (Option 003 raises maximum output). Non-volatile store/recall speeds repetitive setups. RF component characterization; radio communications system test; receiver sensitivity and modulation tests; ATE via GPIB.

MODEL **IFR 2030**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **2030**	LISTING **https://aumictechlabs.com/products/2030-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The IFR 2030 is a signal generator delivering precise RF signal generation from 10 kHz to 1.35 GHz with 0.1 Hz frequency resolution. It supports AM, FM, and phase modulation with flexible modulation oscillators operating from 0.1 Hz to 500 kHz. Output power spans -144 dBm to +13 dBm with 0.1 dB resolution, and the instrument withstands reverse power up to 50 W at VSWR 5:1.

An RF carrier on/off switch provides complete output control. FM capabilities include wideband operation at 10 MHz bandwidth, FM deviation to 1 MHz (up to 21 MHz) or 1% of carrier frequency, and both AC and DC-coupled modes with offset correction. Phase modulation reaches 10 radians across a 10 kHz bandwidth. AM operation reduces maximum output to +7 dBm at full depth. The instrument supports single, dual, composite, and dual composite modulation modes. Optional modules enable pulse modulation, GSM/PCN (GMSK Bt 0.3) with 270.833 kHz clock rate, avionics waveforms for VOR/ILS testing, and DME generation. Non-volatile memory stores instrument configuration. GPIB (IEEE-488.2) interface enables automated test system integration and remote operation. Technical Specifications Frequency Range: 10 kHz to 1.35 GHz Frequency Resolution: 0.1 Hz Output Power: -144 dBm to +13 dBm Output Power Resolution: 0.1 dB Output Protection: 50 W reverse power capability at VSWR 5:1 Modulation Oscillator: 0.1 Hz to 500 kHz FM Deviation: Up to 1 MHz (≤21 MHz); 1% of carrier frequency (>21 MHz) FM Bandwidth: 10 MHz wideband; 300 kHz at 1 dB Phase Modulation Bandwidth: 10 kHz; maximum 10 radians AM Maximum Output: +7 dBm at full modulation depth Key Features AM, FM, and phase modulation with single/dual/composite modes DC-coupled FM with offset correction Dedicated RF carrier on/off switch Non-volatile memory for settings storage Optional second modulation oscillator Optional pulse modulation (including slow rise time variant) Optional GSM/PCN GMSK Bt 0.3 modulation with internal data generator Optional avionics modulation for VOR/ILS system testing Optional DME signal generation Typical Applications RF component characterization and receiver testing Radio communications system validation Instrument Landing System (ILS) and VHF Omni Range (VOR) beacon testing GSM/PCN mobile communications testing Distance Measuring Equipment (DME) validation Compatibility & Integration GPIB (IEEE-488.2) interface for automated test system integration Remote operation and control via standard IEEE-488.2 commands

Features & description

From manufacturer datasheet

Features

• 10 kHz to 1.35 GHz (2030) • Amplitude -144 to +13 dBm class; Option 003 +19 dBm • AM, FM, phase modulation; optional pulse (Option 002) • Sweep capability; LF output • GPIB standard; second internal modulation oscillator Option 001

2030 Characteristics / Specifications

PARAMETER	VALUE
Model	2030
Manufacturer	Marconi / IFR / Aeroflex
Instrument Type	Synthesized signal generator
Family	2030 / 2031 / 2032
Frequency Range	10 kHz to 1.35 GHz
Related 2031 Frequency Range	10 kHz to 2.7 GHz
Related 2032 Frequency Range	10 kHz to 5.4 GHz
Amplitude Range Standard	-144 dBm to +13 dBm
Amplitude Maximum Option 0	+19 dBm
Modulation AM	yes
Modulation FM	yes
Modulation Phase	yes
Modulation Pulse Option 0	optional
LF Output	yes
Sweep Capability	yes
Remote Interface	GPIB
Nonvolatile Store Recall	yes
Alias	IFR 2030; Marconi 2030; Aeroflex 2030
Frequency Resolution Class	synthesized 0.1 Hz class family literature
Application Class	RF component and radio system test

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

Specifications

PARAMETER	VALUE
Model	2030
Manufacturer	Marconi / IFR / Aeroflex
Instrument Type	Synthesized signal generator
Family	2030 / 2031 / 2032
Frequency Range	10 kHz to 1.35 GHz
Related 2031 Frequency Range	10 kHz to 2.7 GHz
Related 2032 Frequency Range	10 kHz to 5.4 GHz
Amplitude Range Standard	-144 dBm to +13 dBm
Amplitude Maximum Option 003	+19 dBm
Modulation AM	yes
Modulation FM	yes
Modulation Phase	yes
Modulation Pulse Option 002	optional
LF Output	yes
Sweep Capability	yes
Remote Interface	GPIB
Nonvolatile Store Recall	yes

Option 001: second internal modulation oscillator
Option 002: pulse modulation
Option 003: +19 dBm output level
Option 005: GSM/PCN/PCS GMSK BT 0.3 modulation
Option 006: avionics (requires Option 001; not with 003)
Option 008: RF profiles and complex sweep
Option 009: internal pulse generator (requires Option 002)
Option 012: electronic attenuator

Specifications

PARAMETER	VALUE
Alias	IFR 2030; Marconi 2030; Aeroflex 2030
Frequency Resolution Class	synthesized 0.1 Hz class family literature

PARAMETER	VALUE
Application Class	RF component and radio system test

Notes
Frequency/amplitude/option rows from Aeroflex/IFR/Marconi 2030-series product summaries. Confirm installed options and exact spectral-purity tables from the 2030 operating manual for the serial configuration.

Ordering Information

OPTION	DESCRIPTION
Option 003	raises maximum output). Non-volatile store/recall speeds repetitive setups.
Option 001	Technical Specifications

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

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