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Data Sheet
August 13, 2026

IFR/MARCONI

Marconi 6912 RF Power Sensor

The Marconi / IFR / Aeroflex 6912 isamedium-power semiconductor-thermocouple RF power sensor in the 6910 series. Frequency coverage is 30 kHz to 4.2 GHz withapower range of -30 dBm to +20 dBm (1 uW to 100 mW). Maximum RF input is +25 dBm (300 mW) CW and +42 dBm (15 W) peak for 2 us. A precision N-type male 50 ohm connector and 0.01 percent resolution linearity/calibration factors (supplied with the sensor) support 6960/6970 power meters, CPM 20/46 counter power meters, and 6200B microwave test sets. Order code 56912/900. RF/microwave average-power measurement on 6960B/6970 meters Interchangeable multiway meter cable socket Do not confuse with 6910 (10 MHz-20 GHz, N) or 6911 (10 MHz-20 GHz, APC-7) Instrument Type: Medium power thermocouple RF power sensor Alias: IFR 6912; Aeroflex 6912; 56912/900

MODEL IFR/Marconi 6912	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 6912	LISTING https://aumictechlabs.com/products/6912-2/

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

NAICS 423690 · 811210 · 541380

This unit

The IFR/Marconi 6912 signal generator is a reliable instrument designed for generating precise and stable signals. Its wide frequency range and comprehensive modulation options make it suitable for testing receivers, amplifiers, and other electronic devices. The 6912 is a valuable tool for engineers and technicians in research, development, and production environments.

6912 Characteristics / Specifications

PARAMETER	VALUE
Model	6912
Manufacturer	Marconi / IFR / Aeroflex
Instrument Type	Medium power thermocouple RF power sensor
Family	6910 series
Alias	IFR 6912; Aeroflex 6912; 56912/900
Frequency Range	30 kHz to 4.2 GHz
Power Range	-30 dBm to +20 dBm (1 uW to 100 mW)
Max RF Input CW	+25 dBm (300 mW)
Max RF Input Peak	+42 dBm (15 W) for 2 us
Sensing Element	semiconductor thermocouple
VSWR 30 kHz to 100 kHz	less than 1.6
VSWR 100 kHz to 300 kHz	less than 1.2
VSWR 300 kHz to 4.2 GHz	less than 1.1
Linearity Factor	provided with sensor
Linearity Accuracy	plus/minus 0.5 percent at 25 C between +10 and +20 dBm
Linearity Lower Ranges	improves byafactor of 10 for each lower range
Calibration Factor	provided with sensor
Calibration Accuracy	uncertainty provided with sensor
Resolution	0.01 percent
RF Connector	precisionNtype male 50 ohm
Length	87 mm
Diameter	33.5 mm
Weight	140 g
Order Code	56912/900
Compatible Meters	6960B, 6970, CPM 20, CPM 46, 6200B series MTS

PARAMETER	VALUE
Related 69	10 MHz to 20 GHz; N male; VSWR less than 1.1 from 30 MHz to 2 GHz
Power Class	medium power (not 6920 diode or 6930 high power)

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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Related 6910	10 MHz to 20 GHz; N male; VSWR less than 1.1 from 30 MHz to 2 GHz

PARAMETER	VALUE
Related 6911	10 MHz to 20 GHz; APC 7
Related 6913	10 MHz to 26.5 GHz; 3.5 mm
Related 6919	30 kHz to 3 GHz; 75 ohmNImpedance: 50 ohm
Power Class	medium power (not 6920 diode or 6930 high power)

Notes

6912 column from Aeroflex 6910/20/30 RF Power Sensors data sheet (46891/128). Linearity and calibration-factor uncertainties are those printed on the individual sensor certificate. Type-N figures above 18 GHz are not a 6912 concern (4.2 GHz stop). Use with the matching meter cable and 0 dBm 50 MHz reference on CPM/6960-class instruments.

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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