

Inovonics 708

Performance and value in an FM Stereo Generator

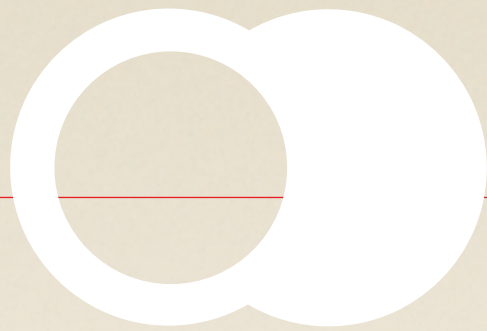
AN ECONOMICAL DIGITAL-SYNTHESIS FM STEREO GENERATOR

Inovonics' 708 is the latest generation in a proven line of "basic" FM Stereo Generators, boasting features and performance usually found in products costing significantly more. It includes accurate front-panel metering for easy setup, adjustable pre-pilot composite processing, and internal combining for RDS/RBDS and SCA subcarriers.

New digital synthesis techniques and linear-phase filtering ensure outstanding performance, and a clean output spectrum protects low-injection digital and analog subcarriers.

If your fundamental need is for a simple, yet fully-featured "basic" FM Stereo Generator, our 708 deserves your careful consideration.





Inovonics 708

Features & Specifications

- Digital synthesis of the stereo pilot and multiplex signals assures optimum stereo separation and drift-free operation.
- Accurate front-panel metering facilitates setup and aids the proper adjustment of subcarrier injection levels.
- The 708 provides independent metering and internal combining for SCA or RDS/RBDS subcarriers.
- Easy to set up and easy to use, the 708 utilizes “generic” components throughout for ease in servicing, anywhere in the world.

FREQUENCY RESPONSE

±0.5dB, 20Hz-16kHz.

STEREO SEPARATION

>60dB (typically 65-70dB), 50Hz-15kHz.

NOISE

Better than 75dB below 100% modulation in baseband and subcarrier; “digital” noise components above 54kHz are -70dB or better.

DISTORTION

<0.15% THD in baseband and subcarrier at 95% modulation.

CROSSTALK (M/S or S/M)

“Nonlinear” crosstalk is better than -50dB, 50Hz-15kHz; “linear” crosstalk is better than -45dB with pre-emphasis switched off.

STEREO PILOT

19kHz, ±1Hz; level may be adjusted between 6% and 12%, relative to 100% modulation. <1% THD in pilot signal.



Rear view

PROGRAM LINE INPUTS (Left and Right)

Active-balanced, bridging; accept limited program audio levels between -15dBu and +15dBu, corresponding to 100% modulation.

SUBCARRIER INPUTS

Two unbalanced inputs accommodate SCA or RDS/RBDS subcarriers at levels between -20dBu and 0dBu for nominal 5-10% injection.

PRIMARY LOW-PASS FILTERING

7-pole, phase-corrected, active-elliptic filter with proprietary overshoot compensation (defeatable). -60dB or better at 19kHz and above.

PRE-EMPHASIS

May be jumpered for 75µs or 50µs characteristics; may be defeated by front-panel switch.

COMPOSITE PROCESSING

A composite clipper acts on the multiplex signal prior to injection of the stereo pilot and any auxiliary subcarriers. Clipping is adjustable between 0dB and 3dB.

COMPOSITE OUTPUT

Unbalanced output with 75-ohm source impedance. 100%-modulation level is adjustable between 1V p-p and 8V p-p.

DIGITAL SYNTHESIS SAMPLING RATE

608kHz (16X subcarrier oversampling).

POWER REQUIREMENT

105-130VAC or 210-255VAC, 50/60Hz; 10W.

SIZE AND SHIPPING WEIGHT

1³/₄”H x 19”W x 6”D (1U); 7 lbs.

