

Now...from the people
who brought you the GFA-555
high-current, high-power amplifier
and the remarkable GFP-555
preamplifier...an affordable tuner
for the real world of
FM broadcast conditions.



ADCOM[®] GFT-555

FM Stereo/AM Tuner

Unlike all other components, a tuner's performance depends to a great extent on where it happens to be installed – that is, with respect to the nearest FM stations.

If you live in a close-in suburban area where a station's signal strength is reasonable and where there are few tall buildings, almost any tuner may do an adequate job. But in a major metropolitan area with tall buildings and many strong stations crowding the FM dial, your tuner must contend with such problems as multipath distortion and front-end overload. And it should have the ability to separate stations contending for limited dial space.

In rural areas where stations are distant and weak, and where signals sometimes arrive at an adjacent or same broadcast frequency from different directions, a tuner requires high sensitivity for adequate signal boost and good capture ratios and selectivity to keep stations from interfering with each other.

High performance and affordability.

The ability to cope well with conditions in both metropolitan and fringe areas requires sophisticated, expensive circuitry. Unless the ultimate selling price is no object, some compromise in design is usually necessary. The Adcom tuner is a clear exception to this rule. Through the use of recently developed component parts and innovative circuitry, Adcom has produced an excellent and eminently affordable tuner.

In order to create a perfect balance of sensitivity, selectivity, and low distortion – performance characteristics which can be appreciated every time you tune across the dial – we selected four specially designed, low-distortion IF filters with critically-defined bandpass capabilities. For excellent signal-to-noise ratios and superb sensitivity throughout the FM band, there is a two-stage dual MOSFET RF input amplifier.

For outstanding stereo separation and frequency response, the stereo multiplex decoding circuits operate at 456 kHz instead of the more conventional 76 kHz. To assure that the selected station will be heard without drift or error, the quartz-referenced digital synthesis tuning system is designed for a tuning accuracy of 0.00025%.

The primary objective: musicality.

But tuning ease and accuracy under adverse reception conditions were only part of the design considerations. Even though the technical aspects of tuner design are certainly important, we consider optimum musical quality most important of all. We never forget that all high fidelity components are primarily a means to musical enjoyment.

Our main design objective – to optimize sonic performance – is reflected only partially by the measured specifications. For example, the frequency-generating circuitry associated with digital synthesis tuning tends to raise the background noise and distortion level of a tuner. To avoid this problem, we adopted computer shielding techniques – including ribbon

wire – to prevent the synthesized digital pulses from leaking into the high-gain front end of the tuner.

Many operating and convenience features:

In our concern for providing you with the best possible stereo reception, we haven't lost sight of ease and convenience.

You can program up to sixteen stations into memory – eight each, FM and AM – for instant retrieval at the touch of a button. And the large, clear fluorescent frequency display can be read from across the room. (A built-in lithium battery preserves station memory during lengthy power outages.)

A five-stage LED signal-strength display enables you to orient your antenna for optimum reception. If the signal from a favorite station is just too weak to be entirely noise-free, the switchable "high blend" circuit reduces high frequency noise to preserve listenability.

And under extreme conditions where noise-free stereo signals can't be received at all, you have a stereo/mono switch for a practical compromise.

Finally, as you can see at a glance, we've also taken care to present all this simply and attractively. And like most of our components, you have a choice of either all black, or a white or silver front panel. Please write for literature and reviews of other fine Adcom products. We will reply promptly.

SPECIFICATIONS.

FM Section:
IHF sensitivity, mono: 9.5 dBf (1.6 μ V)
Signal strength for – 50 dB quieting:
Mono: 12.5 dBf
Stereo: 36.5 dBf
Capture ratio: 1.5 dB
AM suppression: 70 dB
Alternate channel selectivity: 80dB
Separation at 1kHz: 52 dB
Total harmonic distortion – stereo:
1 kHz: 0.05%
6 kHz: 0.09%
Intermodulation distortion (SMPTE 4:1 ratio):
<0.08% up to 100% modulation
Maximum signal-to-noise ratio:
Mono: 85 dB
Stereo: 75 dB
Frequency response: 30 Hz-15 kHz
Antenna impedance: 75 or 300 ohms
Line voltage: 120V/60Hz (available in 220V/50Hz on special order)
Dimensions: 17" x 3 1/4" x 13" D (432mm x 83mm x 330mm D)
Weight: 14 lbs. (6.4 kg)
Optional accessory: Model RM-3 rack mount adapters.

Available on special order with white front panel with white buttons, or silver panel with black buttons.

ADCOM[®]

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