

P9CFM-250

TEST REPORT FOR FM TRANSMITTER

AUDIO MEASUREMENTS

Serial No.: FM250/

Transmit Freq: 98.0 MHz

Stereophonic Test Results

Stereophonic Performance

| Stereo Input Operation        |                   | Left      | Right |
|-------------------------------|-------------------|-----------|-------|
| Input Impedance               | 600 Ohm           | 619       | 619   |
| Input Level                   | for $\pm 75$ kHz  | 10dBm     | 10dBm |
| Input Level                   | for $\pm 100$ kHz | 13dBm     | 13dBm |
| Unweighted S/N Ratio          | <-60dB            | -74dB     | -75dB |
| AM Synchronous                | <-50dB            | -58dB     |       |
| 38kHz Sub-carrier Suppression | <-50dB            | -62dB     |       |
| Pilot Frequency               | kHz               | 19.000kHz |       |
| Pilot Deviation               | kHz               | 7.460kHz  |       |

Amplitude-Frequency Response at 50% Deviation

| Frequency (Hz) | Specification | Results |       |
|----------------|---------------|---------|-------|
|                |               | Left    | Right |
| 50             | $\pm 0.5$ dB  | -0.08   | -0.07 |
| 100            | $\pm 0.5$ dB  | -0.01   | -0.01 |
| 400            | $\pm 0.5$ dB  | 0dB Ref |       |
| 1000           | $\pm 0.5$ dB  | -0.01   | -0.02 |
| 2500           | $\pm 0.5$ dB  | -0.02   | -0.02 |
| 5000           | $\pm 0.5$ dB  | -0.03   | -0.04 |
| 7500           | $\pm 0.5$ dB  | 0.05    | 0.01  |
| 10000          | $\pm 0.5$ dB  | 0.12    | 0.07  |
| 12500          | $\pm 0.5$ dB  | 0.11    | 0.08  |
| 15000          | $\pm 0.5$ dB  | 0       | -0.01 |

Amplitude-Frequency Response at 100% Deviation

| Frequency (Hz) | Specification | Results |       |
|----------------|---------------|---------|-------|
|                |               | Left    | Right |
| 50             | $\pm 0.5$ dB  | -0.09   | -0.08 |
| 100            | $\pm 0.5$ dB  | -0.01   | -0.01 |
| 400            | $\pm 0.5$ dB  | 0dB Ref |       |
| 1000           | $\pm 0.5$ dB  | -0.02   | -0.01 |
| 2500           | $\pm 0.5$ dB  | -0.03   | -0.05 |
| 5000           | $\pm 0.5$ dB  | -0.03   | -0.07 |
| 7500           | $\pm 0.5$ dB  | 0.05    | -0.01 |
| 10000          | $\pm 0.5$ dB  | 0.13    | 0.05  |
| 12500          | $\pm 0.5$ dB  | 0.12    | 0.06  |
| 15000          | $\pm 0.5$ dB  | 0       | -0.03 |

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Stereophonic Test Results

| Harmonic Distortion at 100% Deviation |               |         |       |  |
|---------------------------------------|---------------|---------|-------|--|
| Frequency (Hz)                        | Specification | Results |       |  |
|                                       |               | Left    | Right |  |
| 50                                    | 0.5           | 0.119   | 0.116 |  |
| 100                                   | 0.5           | 0.122   | 0.121 |  |
| 400                                   | 0.5           | 0.118   | 0.12  |  |
| 1000                                  | 0.5           | 0.119   | 0.132 |  |
| 2500                                  | 0.5           | 0.132   | 0.289 |  |
| 5000                                  | 0.5           | 0.168   | 0.331 |  |
| 7500                                  | 0.5           | 0.234   | 0.386 |  |
| 10000                                 | 0.5           | 0.042   | 0.041 |  |
| 12500                                 | 0.5           | 0.051   | 0.046 |  |
| 15000                                 | 0.5           | 0.087   | 0.086 |  |

| Stereo Separation at 100% Deviation |               |              |              |  |
|-------------------------------------|---------------|--------------|--------------|--|
| Frequency (Hz)                      | Specification | Results      |              |  |
|                                     |               | Left - Right | Right - Left |  |
| 50                                  | 0.5           | -42          | -42          |  |
| 100                                 | 0.5           | -58          | -56          |  |
| 400                                 | 0.5           | -62          | -61          |  |
| 1000                                | 0.5           | -64          | -64          |  |
| 2500                                | 0.5           | -64          | -66          |  |
| 5000                                | 0.5           | -62          | -66          |  |
| 7500                                | 0.5           | -61          | -62          |  |
| 10000                               | 0.5           | -60          | -60          |  |
| 12500                               | 0.5           | -60          | -58          |  |
| 15000                               | 0.5           | -59          | -56          |  |

Stereo Crosstalk at 100% Deviation (Left and Right Channels In-phase)

| Frequency (Hz) | Specification | Results |
|----------------|---------------|---------|
| 50             | <-40dB        | -61     |
| 400            | <-40dB        | -62     |
| 5000           | <-40dB        | -48     |
| 12500          | <-40dB        | -52     |
| 15000          | <-40dB        | -49     |

Stereo Crosstalk at 100% Deviation (Left and Right Channels Out-of-phase)

| Frequency (Hz) | Specification | Results |
|----------------|---------------|---------|
| 50             | <-40dB        | -56     |
| 400            | <-40dB        | -58     |
| 5000           | <-40dB        | -49     |
| 12500          | <-40dB        | -49     |
| 15000          | <-40dB        | -42     |