

P9CFM-25
TEST REPORT FOR FM TRANSMITTER

AUDIO MEASUREMENTS

Serial No.: FM25/00086
Transmit Freq: 98.0 MHz

Stereophonic Test Results

Stereophonic Performance

Stereo Input Operation		Left	Right
Input Impedance	600 Ohm	619	619
Input Level	for ± 75 kHz	10dBm	10dBm
Input Level	for ± 100 kHz	12.5dBm	12.5 dBm
Unweighted S/N Ratio	<-60dB	-78dB	-78dB
AM Synchronous	<-50dB	-63dB	
38kHz Sub-carrier Suppression	<-50dB	-55dB	
Pilot Frequency	kHz	19.000kHz	
Pilot Deviation	kHz	7.460kHz	

Amplitude-Frequency Response at 50% Deviation

Frequency (Hz)	Specification	Results	
		Left	Right
50	± 0.5 dB	-0.06	-0.10
100	± 0.5 dB	-0.01	-0.02
400	± 0.5 dB	0dB Ref	
1000	± 0.5 dB	-0.02	-0.01
2500	± 0.5 dB	0.00	-0.03
5000	± 0.5 dB	-0.01	-0.06
7500	± 0.5 dB	0.04	0.00
10000	± 0.5 dB	0.11	0.08
12500	± 0.5 dB	0.11	0.10
15000	± 0.5 dB	0.00	0.01

Amplitude-Frequency Response at 100% Deviation

Frequency (Hz)	Specification	Results	
		Left	Right
50	± 0.5 dB	-0.07	-0.10
100	± 0.5 dB	-0.01	-0.02
400	± 0.5 dB	0dB Ref	
1000	± 0.5 dB	-0.02	-0.01
2500	± 0.5 dB	-0.01	-0.02
5000	± 0.5 dB	-0.02	-0.04
7500	± 0.5 dB	0.04	0.01
10000	± 0.5 dB	0.11	0.10
12500	± 0.5 dB	0.12	0.12
15000	± 0.5 dB	0.01	0.03

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Harmonic Distortion at 100% Deviation			
Frequency (Hz)	Specification	Results	
		Left	Right
50	0.5	0.083	0.076
100	0.5	0.073	0.074
400	0.5	0.072	0.074
1000	0.5	0.072	0.074
2500	0.5	0.085	0.086
5000	0.5	0.117	0.115
7500	0.5	0.166	0.170
10000	0.5	0.044	0.040
12500	0.5	0.043	0.036
15000	0.5	0.081	0.075

Stereo Separation at 100% Deviation			
Frequency (Hz)	Specification	Results	
		Left - Right	Right - Left
50	0.5	-58	-57
100	0.5	-61	-60
400	0.5	-61	-64
1000	0.5	-60	-64
2500	0.5	-60	-64
5000	0.5	-60	-64
7500	0.5	-60	-64
10000	0.5	-60	-64
12500	0.5	-61	-64
15000	0.5	-62	-62

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

Frequency (Hz)	Specification	Results
50	<-40dB	-50
400	<-40dB	-61
5000	<-40dB	-60
12500	<-40dB	-54
15000	<-40dB	-49

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

Frequency (Hz)	Specification	Results
50	<-40dB	-50
400	<-40dB	-60
5000	<-40dB	-52
12500	<-40dB	-46
15000	<-40dB	-49