

P9CFM-100

TEST REPORT FOR FM TRANSMITTER

AUDIO MEASUREMENTS

Serial No.: FM100/00040

Transmit Freq: 98.0 MHz

Monophonic Test Results

Amplitude-Frequency Response (Pre-emp On) at 25% Deviation

Frequency (Hz)	Specification (dBm)	Result
50	-0.5 - +0.5	0.00
100	-0.5 - +0.5	0.00
400	-0.4 - +0.6	0.17
1000	+0.4 - +1.4	0.89
2500	+3.4 - +4.4	3.84
5000	+7.7 - +8.7	8.20
7500	+10.8 - +11.8	11.31
10000	+13.2 - +14.2	13.64
12500	+15.1 - +16.1	15.47
15000	+16.6 - +17.6	16.98

Amplitude Frequency Response (Pre-emp On) at 50% Deviation

Frequency (Hz)	Specification (dBm)	Result
50	-0.5 - +0.5	0.00
100	-0.5 - +0.5	0.00
400	-0.4 - +0.6	0.15
1000	+0.4 - +1.4	0.90
2500	+3.4 - +4.4	3.86
5000	+7.7 - +8.7	8.25
7500	+10.8 - +11.8	11.39
10000	+13.2 - +14.2	13.75
12500	+15.1 - +16.1	15.62
15000	+16.6 - +17.6	17.19

Amplitude-Frequency Response (Pre-emp On) at 100% Deviation

Frequency (Hz)	Specification (dBm)	Result
50	-0.5 - +0.5	0.00
100	-0.5 - +0.5	0.00
400	-0.4 - +0.6	0.15
1000	+0.4 - +1.4	0.90
2500	+3.4 - +4.4	3.87
5000	+7.7 - +8.7	8.28
7500	+10.8 - +11.8	11.43
10000	+13.2 - +14.2	13.79
12500	+15.1 - +16.1	15.71
15000	+16.6 - +17.6	17.31

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Monophonic Test Results

Amplitude-Frequency Response (Pre-emp Off) at 25% Deviation

Frequency (Hz)	Specification (dBm)	Result
50	$\pm 0.5\text{dB}$	0.01
100	$\pm 0.5\text{dB}$	0.01
400	$\pm 0.5\text{dB}$	0dB Ref
1000	$\pm 0.5\text{dB}$	-0.02
2500	$\pm 0.5\text{dB}$	-0.04
5000	$\pm 0.5\text{dB}$	-0.04
7500	$\pm 0.5\text{dB}$	0.05
10000	$\pm 0.5\text{dB}$	0.11
12500	$\pm 0.5\text{dB}$	0.10
15000	$\pm 0.5\text{dB}$	-0.02

Amplitude-Frequency Response (Pre-emp Off) at 50% Deviation

Frequency (Hz)	Specification (dBm)	Result
50	$\pm 0.5\text{dB}$	0.02
100	$\pm 0.5\text{dB}$	0.01
400	$\pm 0.5\text{dB}$	0dB Ref
1000	$\pm 0.5\text{dB}$	0.02
2500	$\pm 0.5\text{dB}$	-0.03
5000	$\pm 0.5\text{dB}$	-0.03
7500	$\pm 0.5\text{dB}$	0.05
10000	$\pm 0.5\text{dB}$	0.12
12500	$\pm 0.5\text{dB}$	0.11
15000	$\pm 0.5\text{dB}$	-0.02

Amplitude-Frequency Response (Pre-emp Off) at 100% Deviation

Frequency (Hz)	Specification (dBm)	Result
50	$\pm 0.5\text{dB}$	0.02
100	$\pm 0.5\text{dB}$	0.01
400	$\pm 0.5\text{dB}$	0dB Ref
1000	$\pm 0.5\text{dB}$	-0.01
2500	$\pm 0.5\text{dB}$	-0.03
5000	$\pm 0.5\text{dB}$	-0.03
7500	$\pm 0.5\text{dB}$	0.05
10000	$\pm 0.5\text{dB}$	0.12
12500	$\pm 0.5\text{dB}$	0.11
15000	$\pm 0.5\text{dB}$	-0.01

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Harmonic Distortion at 100% Deviation

Frequency (Hz)	Specification (%)	Result
50	0.5	0.076
100	0.5	0.080
400	0.5	0.081
1000	0.5	0.079
2500	0.5	0.143
5000	0.5	0.158
7500	0.5	0.278
10000	0.5	0.222
12500	0.5	0.198
15000	0.5	0.178

Harmonic Distortion at 133% Deviation

Frequency (Hz)	Specification (%)	Result
50	0.5	0.088
100	0.5	0.090
400	0.5	0.092
1000	0.5	0.089
2500	0.5	0.146
5000	0.5	0.176
7500	0.5	0.348
10000	0.5	0.271
12500	0.5	0.227
15000	0.5	0.196