

Serial No.: FM100/00040

Transmit Freq: 98.0 MHz

Stereophonic Test Results

Stereophonic Performance

Stereo Input Operation		Left	Right
Input Impedance	600 Ohm	619	619
Input Level	for $\pm 75\text{kHz}$	10dBm	10dBm
Input Level	for $\pm 100\text{kHz}$	13dBm	13dBm
Unweighted S/N Ratio	$< -60\text{dB}$	-74dB	-76dB
AM Synchronous	$< -50\text{dB}$	-58dB	
38kHz Sub-carrier Suppression	$< -50\text{dB}$	-62dB	
Pilot Frequency	kHz	19.000kHz	
Pilot Deviation	kHz	7.460kHz	

Amplitude-Frequency Response at 50% Deviation

Frequency (Hz)	Specification	Results	
		Left	Right
50	$\pm 0.5\text{dB}$	-0.08	-0.07
100	$\pm 0.5\text{dB}$	-0.01	-0.01
400	$\pm 0.5\text{dB}$	0dB Ref	
1000	$\pm 0.5\text{dB}$	-0.01	-0.02
2500	$\pm 0.5\text{dB}$	-0.02	-0.02
5000	$\pm 0.5\text{dB}$	-0.03	-0.04
7500	$\pm 0.5\text{dB}$	0.05	0.01
10000	$\pm 0.5\text{dB}$	0.12	0.07
12500	$\pm 0.5\text{dB}$	0.11	0.08
15000	$\pm 0.5\text{dB}$	0.00	-0.01

Amplitude-Frequency Response at 100% Deviation

Frequency (Hz)	Specification	Results	
		Left	Right
50	$\pm 0.5\text{dB}$	-0.09	-0.08
100	$\pm 0.5\text{dB}$	-0.01	-0.01
400	$\pm 0.5\text{dB}$	0dB Ref	
1000	$\pm 0.5\text{dB}$	-0.02	-0.01
2500	$\pm 0.5\text{dB}$	-0.03	-0.05
5000	$\pm 0.5\text{dB}$	-0.03	-0.07
7500	$\pm 0.5\text{dB}$	0.05	-0.01
10000	$\pm 0.5\text{dB}$	0.13	0.05
12500	$\pm 0.5\text{dB}$	0.12	0.06
15000	$\pm 0.5\text{dB}$	0.00	-0.03

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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	0.120
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