BZ5MX30V
Application for FCC Certification
Modulator Input
30 Watt VHF Translator

AUDIO FREQUENCY RESPONSE

Tabulated below, are the frequency response measurements for various percentages of modulation in accordance with Part 73.1570(b)(3). The tabulated data below, is in graphed form on the following pages.

Note: the measured curves are drawn offset -1.5dB to show that the measured response is within the prescribed limits.

AUDIO FREQUENCY RESPONSE
REFERENCE 50Hz AT 0dB INTO 600 OHMS

	MODULATION	
FREQUENCY(Hz)	50%	100%
50	-1.37	-1.63
100	-1.33	-1.68
400	-1.27	-1.50
1000	-0.81	-0.69
5000	+5.10	+6.95
10000	+10.85	+12.12
15000	+12.68	+14.58

Tabulated below, are the harmonic distortion measurements.

AUDIO HARMONIC DISTORTION LEVEL (%)

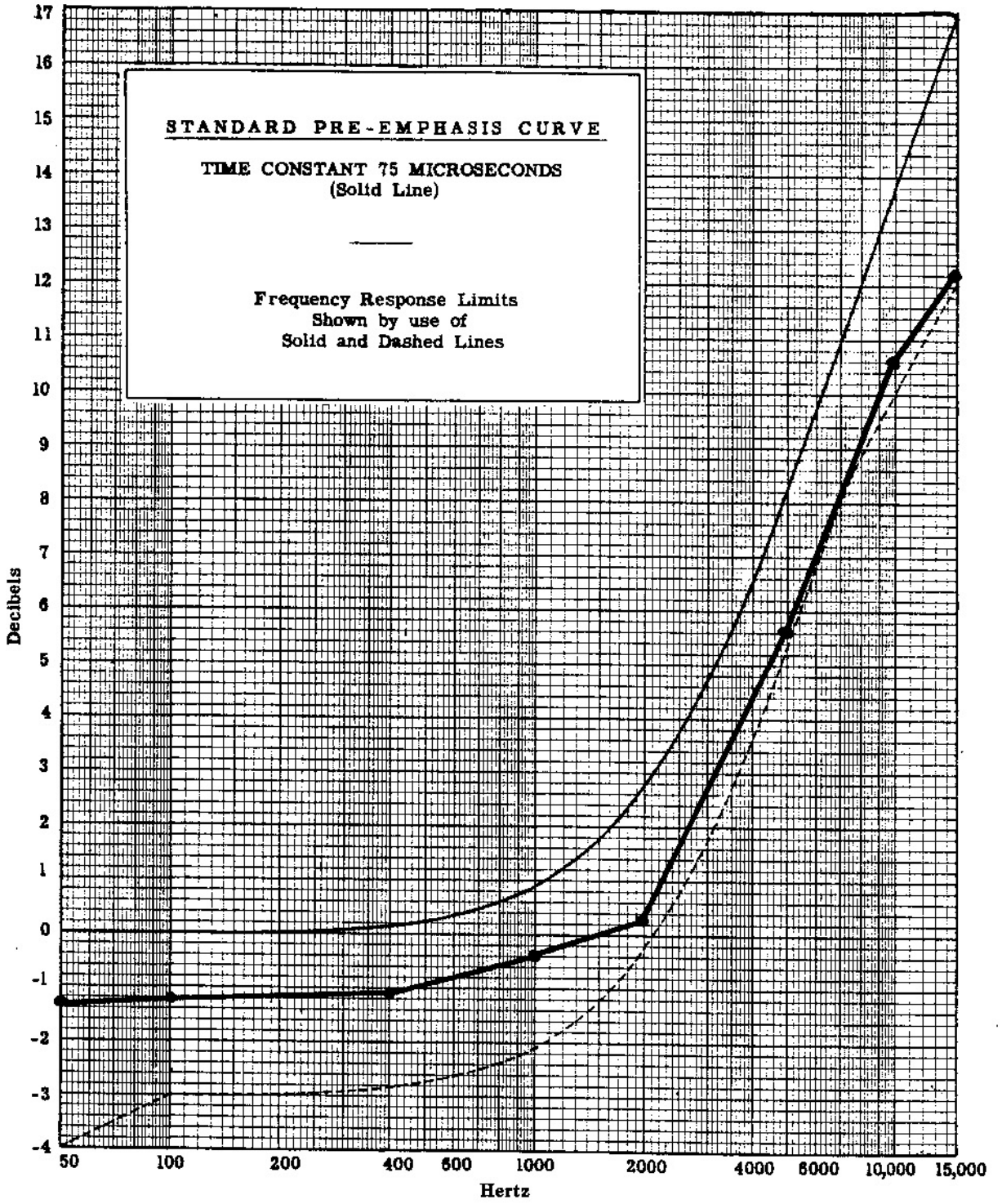
	MODULATION	
FREQUENCY(Hz)	50%	100%
50	4.95	2.59
100	3.68	2.42
400	2.89	1.97
1000	2.75	2.09
5000	4.13	2.06
10000	4.20	2.07
15000	2.76	1.18

The output noise level (FM measured as prescribed in the band of 50 to 15000 Hz) was 51dB below the level representing $\pm$ 25kHz frequency swing.

The system noise output (AM) in the same band was 57dB below the level representing 100% amplitude modulation.

EXHIBIT _____ MODEL NUMBER: **BZ5MX30V**

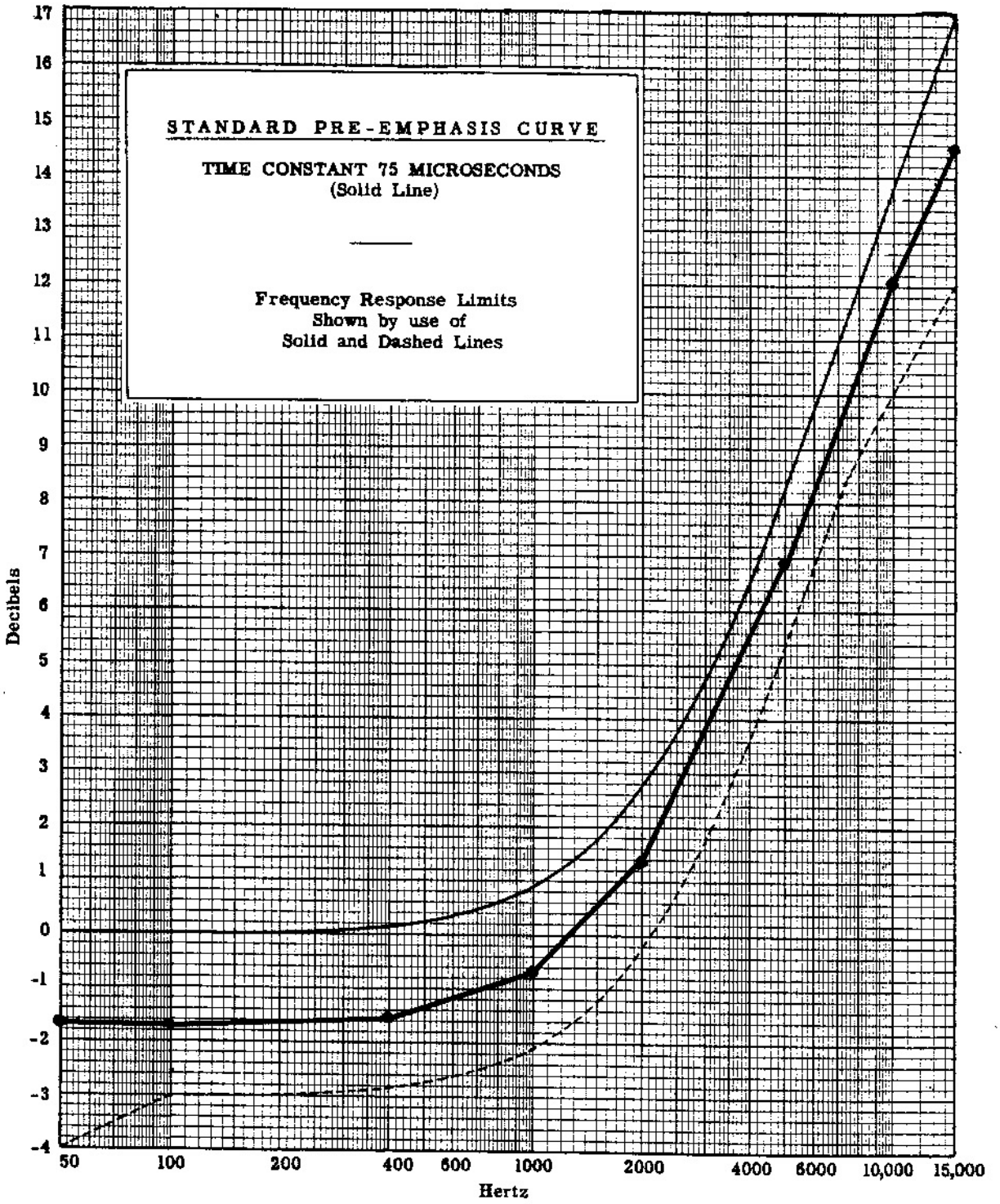
AUDIO FREQUENCY RESPONSE **50** % MODULATION



Reference 50 Hz; 0dB = **-1.5** dB

EXHIBIT _____ MODEL NUMBER: **BZ5MX30V**

AUDIO FREQUENCY RESPONSE **100**% MODULATION



Reference 50 Hz; 0dB = **-1.5** dB