

Audio Frequency Response per 2.987(a)

Constant Input Level of -20 dBm

Frequency	Deviation
Hz	kHz
100	0.30
200	0.48
300	1.25
400	1.60
500	2.06
600	2.30
700	2.35
800	2.25
900	2.11
1000	2.00
1500	1.49
2000	1.25
2500	1.06
3000	0.91
4000	0.68
5000	0.5

Modulation Limiting per 2.987(b)

Deviation with internal call button depressed: Maximum 1.0 kHz

Input Level	Deviation @ 300 Hz Input	Deviation @ 700 Hz Input	Deviation @ 1000 Hz Input
dBm	kHz	kHz	kHz
-40	0.27	0.80	1.12
-30	0.53	2.10	2.14
-20	1.25	2.35	2.00
-10	1.28	2.25	1.93
-9	1.31	2.25	1.94
-8	1.32	2.24	1.94
-7	1.32	2.24	1.95
-6	1.32	2.26	1.95
-5	1.35	2.25	1.93
-4	1.35	2.23	1.92

-3	1.35	2.24	1.92
-2	1.40	2.22	1.92
-1	1.41	2.23	1.92
0	1.45	2.22	1.91

Necessary Bandwidth Calculation:

$B_n = 2M + 2D$ where $M = 3 \text{ kHz}$ and $D = 2.35$

$B_n = 2(3000) + 2(2350) = 10700 \text{ Hz}$

eviation @ 2500 Hz Input

kHz

- 1.03
- 1.07
- 1.05
- 1.03
- 1.02
- 1.01
- 1.01
- 1.01
- 1.00
- 1.00

1.00
0.99
0.99
0.99