RF Voltage Conversion

Panasonic FM generator		tuner antenna input (voltage)			
dB EMF	no load	75 **Ω**		300 **Ω**	
99	*89.1 mV*	*105.4 dBf*	*50.9 mV*	*104.4 dBf*	*90.8 mV*
90	*31.6 mV*	*96.4 dBf*	*18.1 mV*	*95.4dBf*	*32.2 mV*
80	*10 mV*	*86.4 dBf*	*5.7 mV*	*85.4 dBf*	*10.2 mV*
70	*3.16 mV*	*76.4 dBf*	*1.8 mV*	*75.4 dBf*	*3.2 mV*
65	*1.78 mV*	*71.4 dBf*	*1 mV*	*70.4 dBf*	*1.8 mV*
60	*1 mV*	*66.4 dBf*	*0.6 mV*	*65.4 dBf*	*1 mV*
50	*316 µV*	*56.4 dBf*	*181 µV*	*55.4 dBf*	*322 µV*
40	*100 µV*	*46.4 dBf*	*57.1 µV*	*45.4 dBf*	*102 µV*
30	*31.6 µV*	*36.4 dBf*	*18.1 µV*	*35.4 dBf*	*32.2 µV*
20	*10 µV*	*26.4 dBf*	*5.7 µV*	*25.4 dBf*	*10.2 µV*
10	*3.1 µV*	*16.4 dBf*	*1.8 µV*	*15.4 dBf*	*3.2 µV*
0	*1 µV*	*6.4 dBf*	*0.6 µV*	*5.4 dBf*	*1 µV*
-10	*0.3 µV*	*-3.6 dBf*	*0.18 µV*	*-4.6 dBf*	*0.3 µV*
-20	*0.1 µV*	*-12.6 dBf*	*0.06 µV*	*-13.6 dBf*	*0.1 µV*

unit	reference	note
dBm	1 mW/600**Ω**	0dB = 1mW (0.775 Vrms into 600**Ω**)
dBf	1 femtowatt	0dB = 1 femtowatt (1e-15)
dBu	0.775 Vrms	0dBu = 0.775 Vrms
dBV	1 Vrms	0dBV = 1 Vrms
dBµV	1 µV	0dBµV = 1 microvolt

EMF = output voltage with no load

FM Band

Open FM band locations
88.0 MHz
89.7 MHz
97.0 MHz
98.5 MHz
99.4 MHz
105.7 MHz
106.6 MHz
107.5 MHz