



GPSMic for Kenwood Radios GPS Speaker Microphone

Heavy duty type GPS speaker microphone
PTT with spring clip.

Type: GPS Speaker Microphone
Operating Temp.: $-20^{\circ}\text{C} \pm 2^{\circ}\text{C} \sim 50^{\circ}\text{C} \pm 2^{\circ}\text{C}$
Approx. Weight: 200g
Size: 87.0 x 65.0mm

GPS

System: GPS
Sensitivity: -159dBm above
Cold Start: 28 seconds in open sky

Speaker

Dimension: $\Phi 40\text{mm}$
Impedance: $8\Omega \pm 15\%$
Frequency: $680\text{Hz} \sim 20\text{KHz}$
Rate Power: 1W Max 2W
Decibel: $92\text{dB} \pm 3\text{dB}$
Type: Dynamic

Microphone

Dimension: $\Phi 6.0 \times 5.0\text{mm}$
Impedance: $2.2\text{k}\Omega \pm 10\%$
Sensitivity: $-44\text{dB} \pm 3\text{dB}$
Frequency: $50\text{Hz} \sim 15\text{KHz}$
Pattern: Omni-directional



Patent Number

US Patent
7,668,566/7,783,298/6,912,397/6,941,147
Taiwan Patent
M338507/M350183/M315917/I252705/I 248771
China Patent
ZL 200720139535/ZL200620120732/ZL200620118447X
ZL2003201299906

COMPATIBLE RADIO MODEL NO.

GM22-K2 KENWOOD

NX-200/NX-300/TK-5210/TK-5310/TK-5410/TK-5520/TK-5320/TK-2180/TK-3180

GM22-K1 KENWOOD

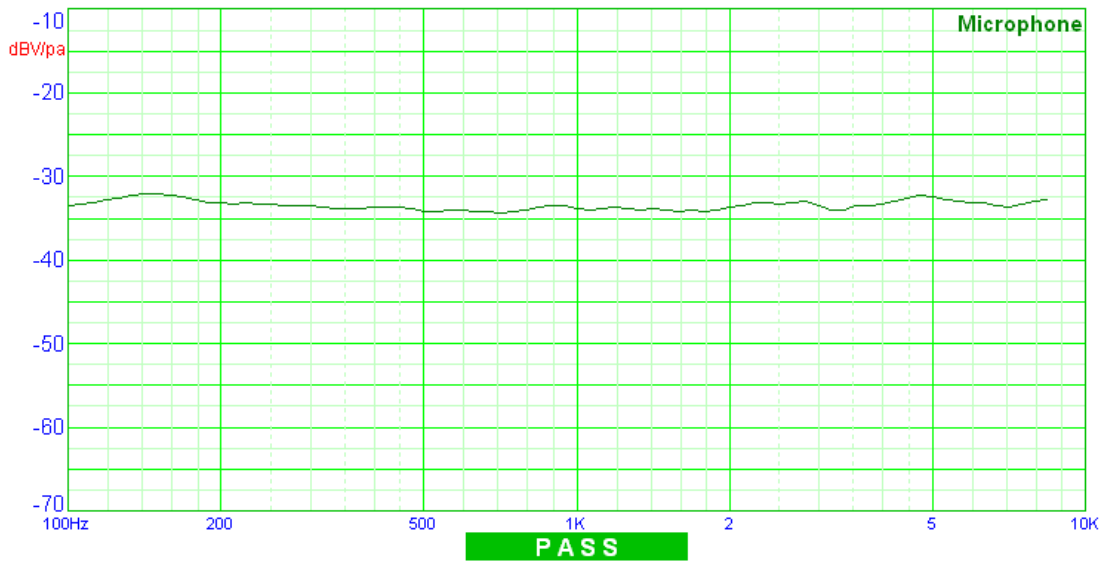
TK-2170/TK-3170/TK-2360/TK-3360/TK-2312/TK-3312/KENWOODNX-220/NX-320

Detail Specifications:

Microphone Sensitivity:

Type 2100T [RUN] Microphone Freq. Response Curve

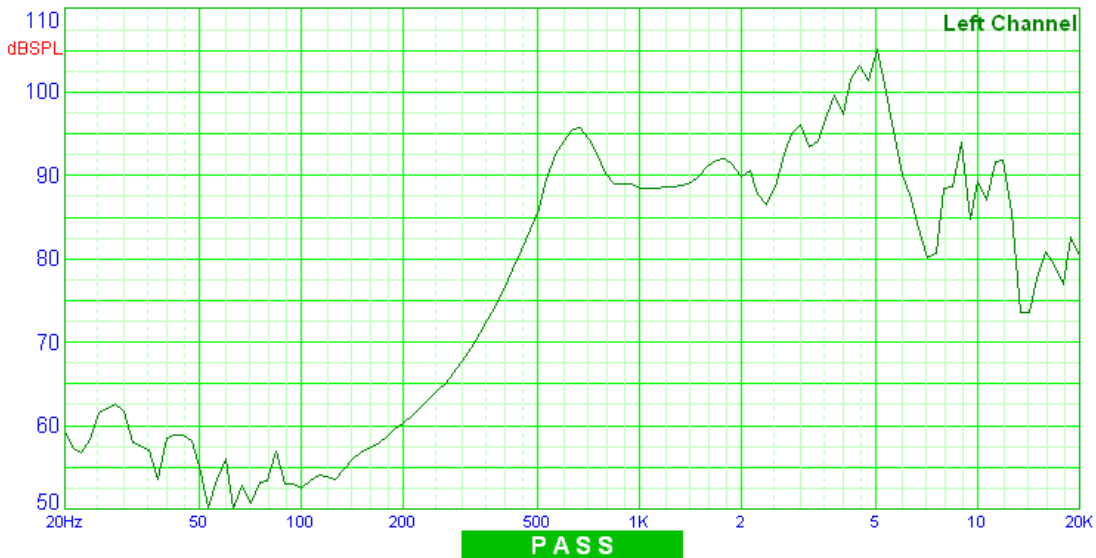
Firm:MobilitySound Object:MIC2 2100T F 2.30 04-26-2011 10:44:36
S= -33.8dBV/Pa = -53.8dBV/ubar P FR:P 1/12 Oct.
SLR=-13.7dB P THD= .3%/1KHz/Mouth= 94.0dB SPL P
DCI= .284mA P @ DCV= 1.99V/Load R= 2.21KΩ
[100Hz vs 1KHz : .3dB]



Speaker Sensitivity:

Type 2100S [RUN] Left Channel Freq. Response Curve

Firm:MobilitySound Object:AK-6 2100S F 2.30 04-29-2011 09:18:11
S= 88.5dB/ 1000Hz/ 900.0mVP
THD % Hz % Hz 400Hz 800Hz 1000Hz 2000Hz 4000Hz Dist.:1.00M
Z= 8.7Ω/ 1000Hz P R= 8.4Ω P Fo= Hz Pola:
4.6% P .9% P .7% P .4% P .3% P 1/12 Oct.



GPS Specification

Receiver type	Channels Frequency Signals	50 L1 GPS C/A Code
Configuration	Time pulse Navigation update rate	0.25 Hz to 1 kHz 1Hz (ROM)
Time-To-First-Fix(1)	Cold Start (Autonomous) Warm Start (Autonomous) Hot Start (Autonomous) Aided Starts(2)	28 s 28 s 1 s 1 s
Sensitivity(3)	Tracking & Navigation Reacquisition Cold Start (Autonomous)	-160 dBm -160 dBm -147 dBm
Accuracy	Horizontal position(4) RMS 99% Velocity(5) Heading(5)	< 2.5 m Autonomous < 2.0 m SBAS 30 ns <60 ns 0.1m/s 0.5 degrees
Limits	Acceleration Altitude(6) Velocity(6)	4 g 50000 m 500 m/s
Baudrate	9600 default	Optional 4800

Note:

1. All satellites at -130 dBm
2. Dependent on aiding data connection speed and latency
3. Demonstrated with a good active antenna
4. CEP, 50%, 24 hours static, -130dBm, SEP: <3.5m
5. 50% @ 30 m/s
6. Assuming Airborne <4g platform