



MobilitySound

GM22S6



GPSMic for Icom Radios GPS Speaker Microphone

Heavy duty type GPS speaker microphone
PTT with spring clip.

Type:	GPS Speaker Microphone
Operating Temp.:	-20°C±2°C ~ 50°C±2°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:	Φ40mm
Impedance:	8Ω±15%
Frequency:	680Hz ~ 20KHz
Rate Power:	1W Max 2W
Decibel:	92dB±3dB
Type:	Dynamic

Microphone Dimension:	Φ6.0 x 5.0mm
Impedance:	2.2kΩ±10%
Sensitivity:	-44dB±3dB
Frequency:	50Hz ~ 15KHz
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.

GM22S6 ICOM

IC-F2000D /F3101D /F4101D /F3210D /F4210D



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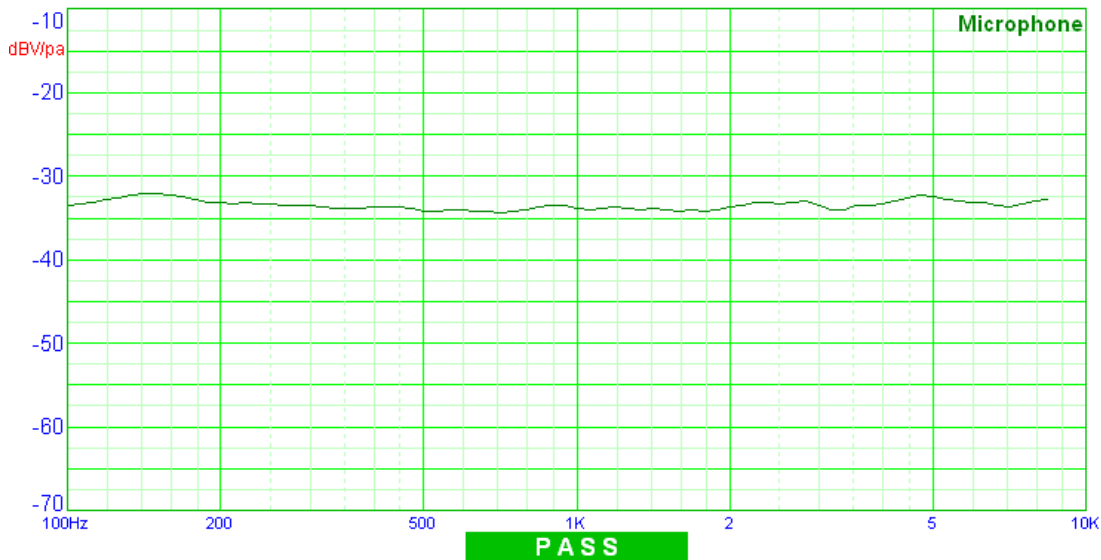
GM22S6

Detail Specifications:

Microphone Sensitivity:

Type 2100T [RUN] Microphone Freq. Response Curve

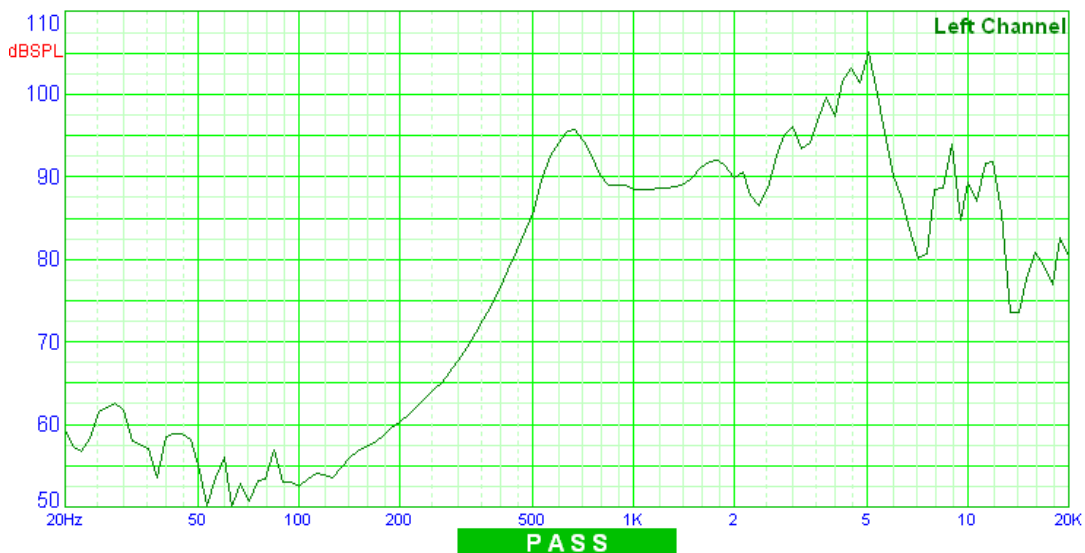
Firm:MobilitySound Object:MIC2 2100T F 2.30 04-26-2011 10:44:36
 S= -33.8dBV/Pa = -53.8dBV/ubar P FR:P 1/12 Oct.
 SLR=-13.7dB P THD= .3%/1KHz/Mouth= 94.0dB SPL P
 DCI= .284mA P @ DCV= 1.99V/Load R= 2.21KΩ
 [100Hz vs 1KHz : .3dB]



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 % Hz % Hz % Hz % Hz %
 FR:P Z= 8.7Ω/ 1000Hz P R= 8.4Ω P Fo= Hz Pola:
 4.6% P .9% P .7% P .4% P .3% P Dist.:1.00M
 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