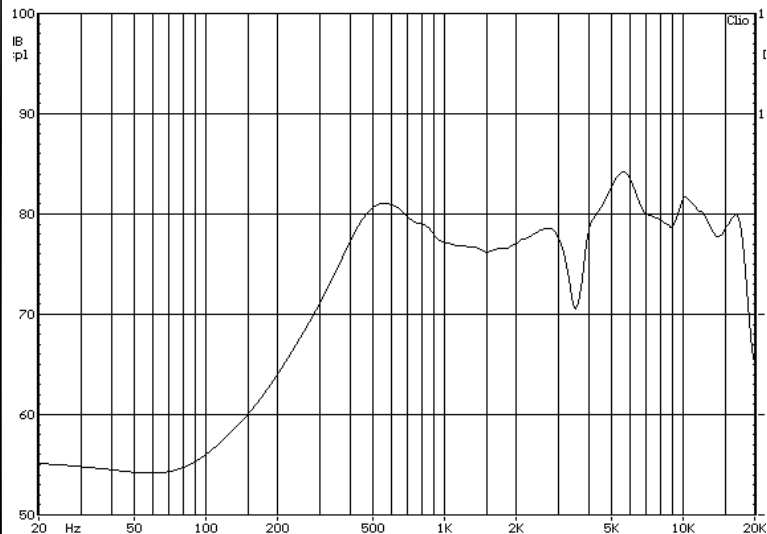


ITEM		SPECIFICATION	REMARKS
1	Dimensions	Ø20.0 x 3.0mm	O.D. of radiating plane
2	Impedance	8Ω ±15%	@ 2kHz/1V
3	Input Power	0.2W /0.4W	RMS/Peak
4	Lowest Resonant Frequency, F ₀	440Hz ±20%	Constant Voltage (1V)
5	Sensitivity	76dB ±3dB	Measured 0.25W/0.5m @ 1kHz
6	Effective Frequency Range	F ₀ to 15kHz	See Typical Frequency Response
7	Total Harmonic Distortion	<5%	Measured @ 2kHz/0.25W/0.5m
8	Magnet Dimension	Ø8.0 x 1.0mm	OD x h (Nd-Fe-B)

TESTS

9	Operation Test	EIA white noise of 0.2W is applied for 96h.	The speaker must meet items 5&6 after test
10	Max. Input Power	The speaker shall be exposed to EIA white noise of 0.4W for 1min.	
11	Polarity	A positive DC current is applied to the terminal marked +	The diaphragm shall move forward
12	Vibration (no box)	10 sweeps of 3 minute duration from 10Hz-30Hz-10Hz (Double Amplitude – 0.75mm)	There shall be no buzz/rattle and the part shall exhibit no physical damage (rivets, weld and glue must hold, no scratches or burrs on surfaces and no peeling of paint/coating)
		10 sweeps of 3 minute duration from 30Hz-55Hz-30Hz (Double Amplitude – 0.55mm)	
13	Drop Test (in box)	Speakers properly packaged in their shipping carton are dropped on each side of the carton except the top from a height of 80cm (carton GW ?10kg) or 60cm (10kg<carton GW ?25kg)	
14	Low Temperature Exposure	The speaker shall be exposed to -25 ±3°C, 50% RH for 96h with a 1h rest at room temperature.	The speaker must meet items 5&6 after test
15	High Temperature Exposure	The speaker shall be exposed to 60 ±2°C, 50% RH for 96h with a 1h rest at room temperature.	
16	Humidity Exposure	The speaker shall be exposed to 40±2°C, 92.5±2.5% RH for 96h with a 1h rest at room	

Typical Frequency Response



		Micro Speaker φ20x 3.0mm, 8Ω Nd-Fe-B Magnet, RoHS compliant	
SIZE	DRAWN BY	PART No.	
A		U0020008NM04BAR	
SCALE	N/A	DATE	SHEET
		22-OCT-08	1 of 1
REV	0.0	DWG No. / FILE	DB08-038