

Loudspeaker HPFS Ø28 mm with rear pad

WD11903Y8HI

Revision

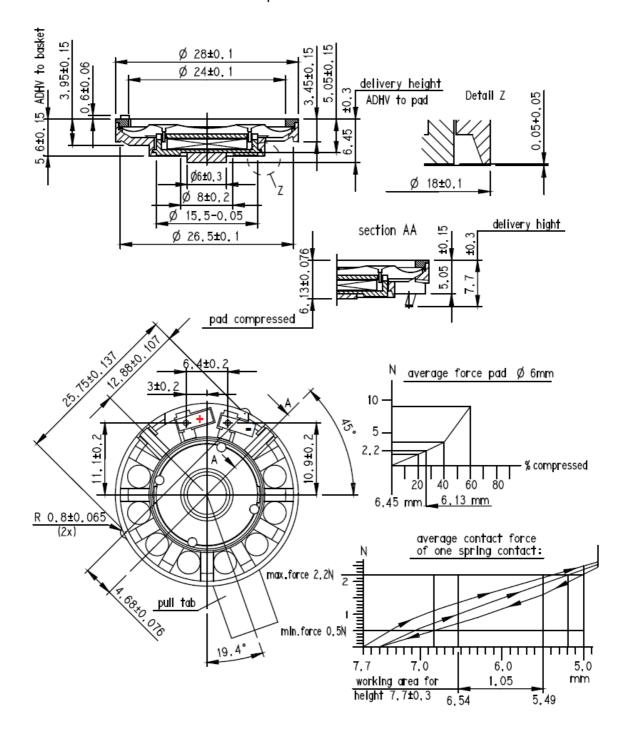
Date	Version	Status	Changes	Approver
2015/02/09	A	Released	First release	NH
2016/12/28	В	Released	Update temperature & packing	LC
2017/08/31	С	Released	Correct drawing with pad + New logo	LC/LD
2018/03/28	D	Released	Update pad thickness	LC
2020/02/19	Е	Released	New diaphragm + new damper	GDC

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1. Mechanical Characteristics

1.1. Mechanical Drawing

Drawing not to scale I Loudspeaker 28 mm



1.2. Part Marking/Labeling

The units have a serial number on bottom (pot) side

Example 13002I 1342 1121 UA:

13002l – digits of the core speaker

I = PEI membrane

1 – last digit of year

34 – week

2 - day

11 - hour

21 - minute

UA - Ukraine

1.3. Material List

Basket Polycarbonate (PC)

Spring contacts Copper alloy, selective gold plating and selective tin

plating over nickel underplating

Membrane Polyetherimide (PEI)

Voice coil wire Copper alloy

Magnet Nd Fe B

Pot and pole plate Soft magnetic iron

Damper foil PC Compound

Gasket PC ring with adhesive VP 6899

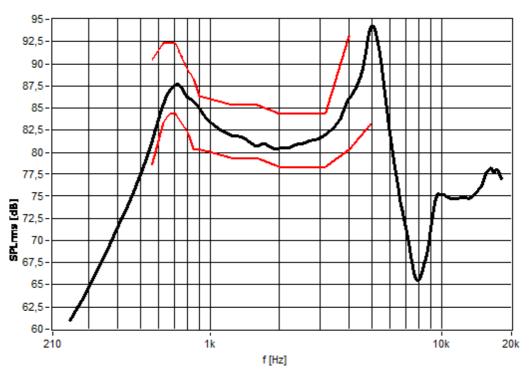
Pad Poron 4701 - 30-25 PFC / Ø6mm

Connection Spring contact, parallel to PCB

Mass of speaker (g) 4,9

2. Electrical and Acoustic Specifications

2.1. Frequency response



Typical frequency response on IEC baffle measured at 500 mW / 1 m

Tolerance window (floating limits)				
f	lower limit	upper limit		
[Hz]	[dB]	[dB]		
560	71	83		
630	76	85		
670	77	85		
710	77	85		
800	75	82		
850	73	81		
900	73	79		
1250	72	78		
1600	72	78		
2000	71	77		
2500	71	77		
3150	71	77		
4000	73	86		
5000	76	-		

2.2. Electro-Acoustic Parameters acc. IEC268-5

2.2.1. Loudspeaker unmounted

1. RATED IMPEDANCE Z: 8Ω

2. VOICE COIL RESISTENCE R: $7.3\Omega^{+10\%}$ -4%

3. RESONANCE FREQUENCY fo: 700Hz±15%

2.2.2. Loudspeaker mounted in baffle

1. CHARACT. SENSITIVY 83.5±2dB

AT 500mW IN DISTANCE d=1m

IN THE FREQUENCY RANGE 500Hz – 2 kHz

2. THD ≤15%(500mW; 700Hz-3kHZ)

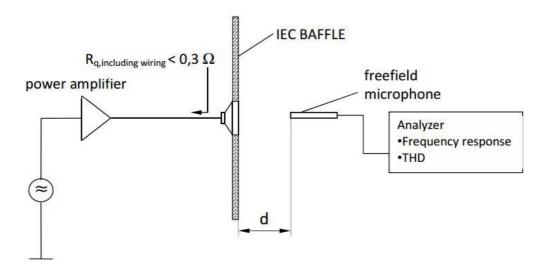
3. MAX. SHORT TERM POWER 1 W (IEC)

4. MAX. NOISE POWER(PHC) 0.5W (IEC)

(CONTINUOUS)

Frequency range in telecom application: 300Hz - 3.4 kHz

2.3. Measurement Setup



3. Environmental conditions

Generally the function is guaranteed in a temperature range of -40°C to +85°C.

Transportation and storage in this same range does not cause remaining changes on the transducer.

4. Packaging

Transducers per tray	48
Transducers per box	768
Box size (in cm)	61 x 41 x 25
Max. boxes per pallet	16
Transducer mass	4.9g
Net weight / box	4kg
Gross weight / box	7kg