DP 2X

TWO-WAY SOUND PROJECTOR

DESCRIPTION

The DP 2X sound projector are elegant and suitable for sound distribution in very large environments.
These have a cylindrical plastic body and an orientable support that allows their aiming to any direction.
The projector incorporates a 130 mm (5”) loudspeaker and a coaxial 25 mm (1”) tweeter placed on a bridge.
It includes a transformer inside for the connection to (100 – 70 V) constant voltage lines; a low impedance input (4 Ohm) is available as well.
When connected to a 100 V line, its power can be selected among the values 4 W, 2 W or 1 W through the selection 5 inputs wire.

MAIN APPLICATIONS

- Industrial environments
- Supermarkets
- Pools
- Warehouses
- Parking
- Train stations
- Underground stations
- Department stores

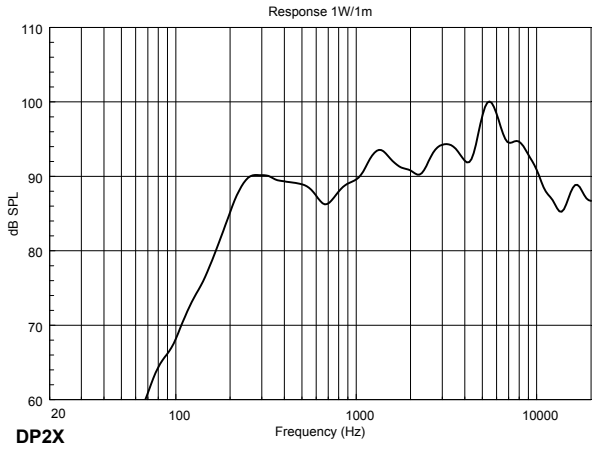
MAIN FEATURES

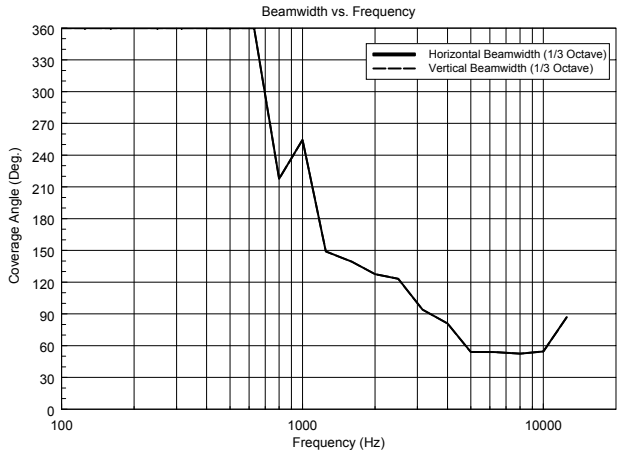
- Woofer 5” wide-band
- 1” coaxial tweeter
- 4 / 8 Watt (RMS/Music Power)
- 150 Hz ÷ 15 kHz
- 100 dB (1 m / POWER MAX) max. SPL
- Incl. 100V transformer multitap
- Easy to install
- Simple power settings

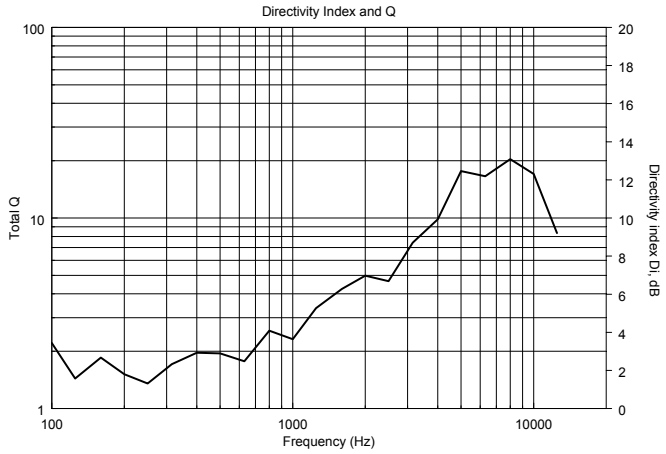
SPECIFICATIONS

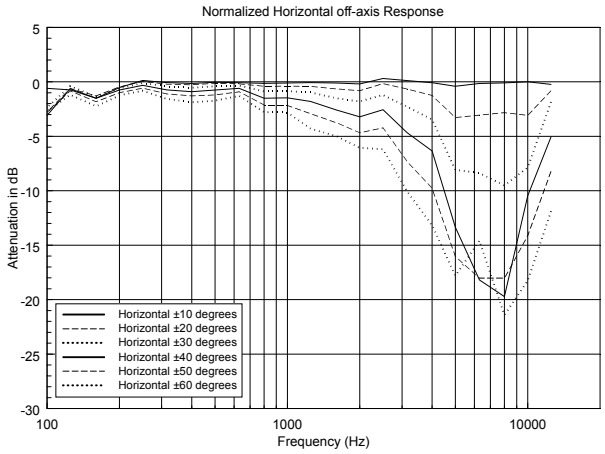
Loudspeaker	5” extended range
Power (on 8 Ohm load)	4 / 8 W (RMS / Music power)
Power	4 W - 2 W - 1 W (100V)
Sensivity	94 dB (1 W / 1 m)
Mx. SPL	100 dB(A) (1 m / POWER MAX)
Frequency Response	150 Hz – 18 kHz
Angle of coverage	240° / 120° / 80° @ 1 / 2 / 4 kHz (hor.)
Connector	5 conductor cable
Body colour	Grey RAL 7016, Black RAL 9005
Main body material	ABS
Dimensiones (HxWxD)	Ø 136 mm x 205 mm
Installation	Orientable support included
Max ceiling distance	40 mm
Connection cable length	1 meter
Net weight	1.1 kg
Operating temperature	-25° to +55°
Relative humidity	90% non condensing

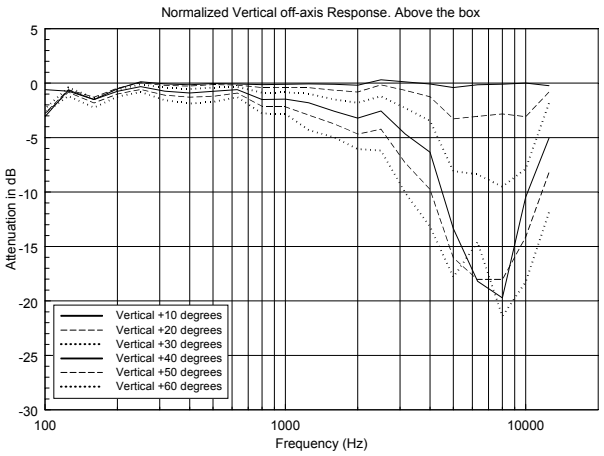
DP 2X

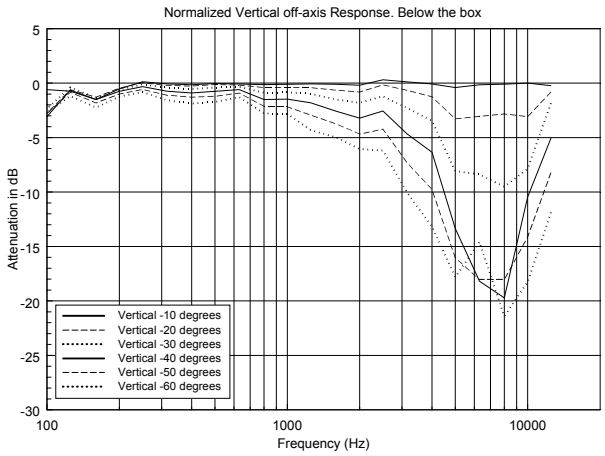

Response 1W/1m
dB SPL
110
100
90
80
70
60
20
100
1000
10000
Frequency (Hz)
DP2X


Beamwidth vs. Frequency
Coverage Angle (Deg.)
360
330
300
270
240
210
180
150
120
90
60
30
0
Horizontal Beamwidth (1/3 Octave)
Vertical Beamwidth (1/3 Octave)
100
1000
10000
Frequency (Hz)


Directivity Index and Q
Total Q
100
10
1
Directivity index DI, dB
20
18
16
14
12
10
8
6
4
2
0
100
1000
10000
Frequency (Hz)

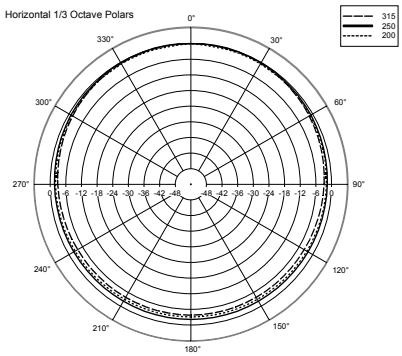

Normalized Horizontal off-axis Response
Attenuation in dB
5
0
-5
-10
-15
-20
-25
-30
Horizontal ±10 degrees
Horizontal ±20 degrees
Horizontal ±30 degrees
Horizontal ±40 degrees
Horizontal ±50 degrees
Horizontal ±60 degrees
100
1000
10000
Frequency (Hz)

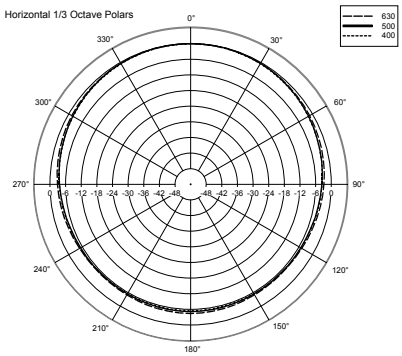

Normalized Vertical off-axis Response. Above the box
Attenuation in dB
5
0
-5
-10
-15
-20
-25
-30
Vertical +10 degrees
Vertical +20 degrees
Vertical +30 degrees
Vertical +40 degrees
Vertical +50 degrees
Vertical +60 degrees
100
1000
10000
Frequency (Hz)

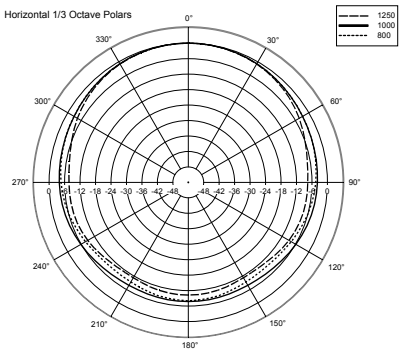

Normalized Vertical off-axis Response. Below the box
Attenuation in dB
5
0
-5
-10
-15
-20
-25
-30
Vertical -10 degrees
Vertical -20 degrees
Vertical -30 degrees
Vertical -40 degrees
Vertical -50 degrees
Vertical -60 degrees
100
1000
10000
Frequency (Hz)

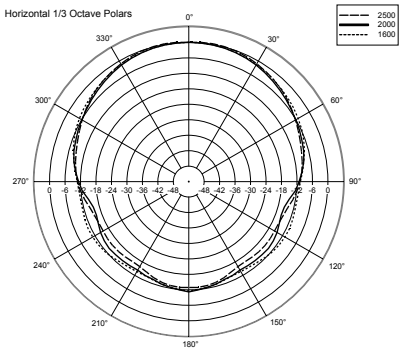
DP 2X

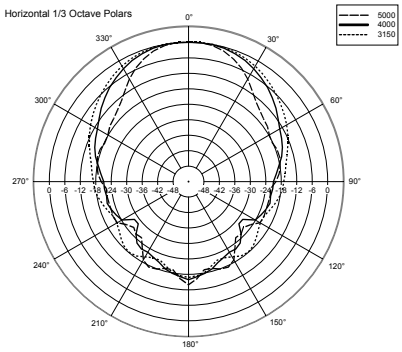
HORIZONTAL 1/3 POLAR PLOT

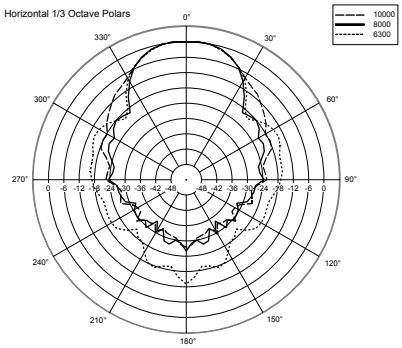




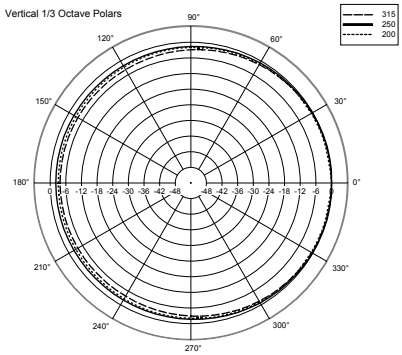


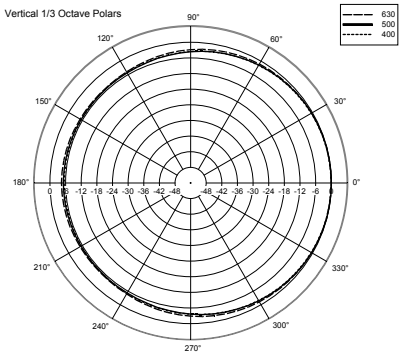


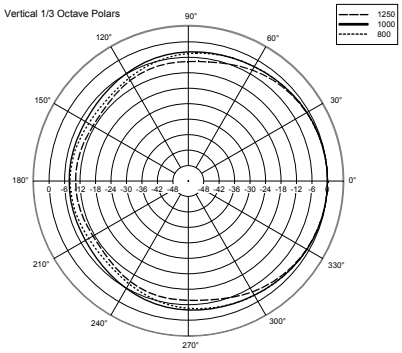


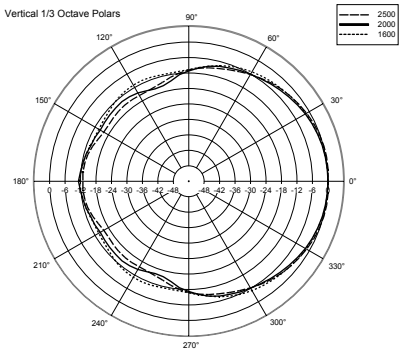


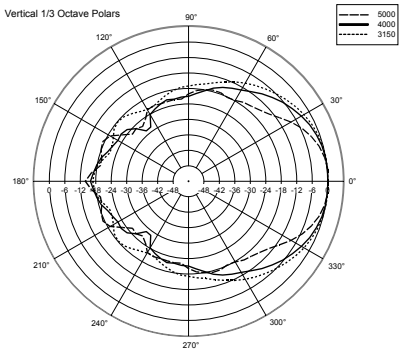
VERTICAL 1/3 POLAR PLOT

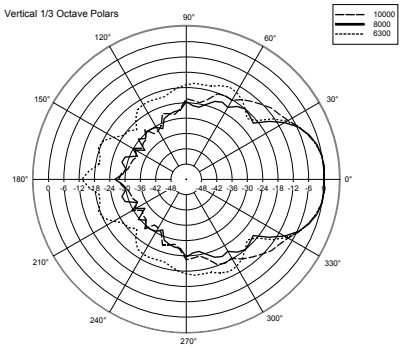












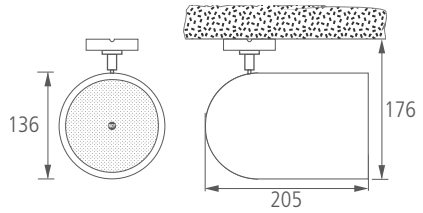
DP 2X

1.0-J-F

PART NUMBERS

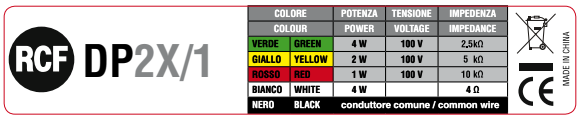
13000104 - DP 2X
13000107 - DP 2X/1

DIMENSIONS (All data are in mm)



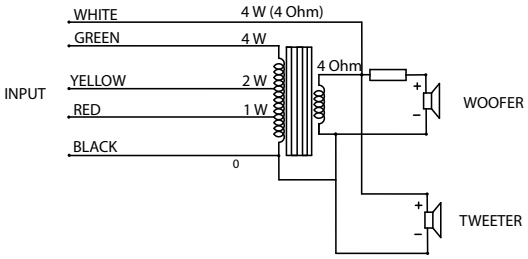
POWER SELECTION

Set the rotary switch to selected the chosen power value referring to the 100 V line (among 1 W - 2 W – 4 W) so the correspondence impedance (among 10000 Ω – 5000 Ω – 2500 Ω)



COLORE		POTENZA	TENSIONE	IMPEDENZA
COLOUR		POWER	VOLTAGE	IMPEDANCE
VERDE	GREEN	4 W	100 V	2,5kΩ
GIALLO	YELLOW	2 W	100 V	5 kΩ
ROSSO	RED	1 W	100 V	10 kΩ
BIANCO	WHITE	4 W		4 Ω
NERO	BLACK	conduttore comune / common wire		

SCHEMATICS



CERTIFICATIONS AND APPROVALS

- CE comply with European Community Directive 73/23/EEC and 93768/EEC
- Self-Extinguishing plastic according to UL 94V0
- Environmental protection IP 40 homologation
- Speaker data according to IEC 268-5
- Safety according to IEC EN 60065:2002

ACCESSORIES (included)

- Orientable support
- Steel Grill

INSTALLATION NOTES

Installation of the DP 2X is quick thanks to the unique orientable support connect to the speaker.
Connections to the loudspeaker line are made by using the four wire cable (1 meter length) coming out from the loudspeaker rear side.
The enclosure is constructed of high density UV resistant self-extinguishing polystyrene with robust steel grill.
The DP 2X is intended for indoor installations.

RCF products are continually improved. All specifications are therefore subject to change without notice.