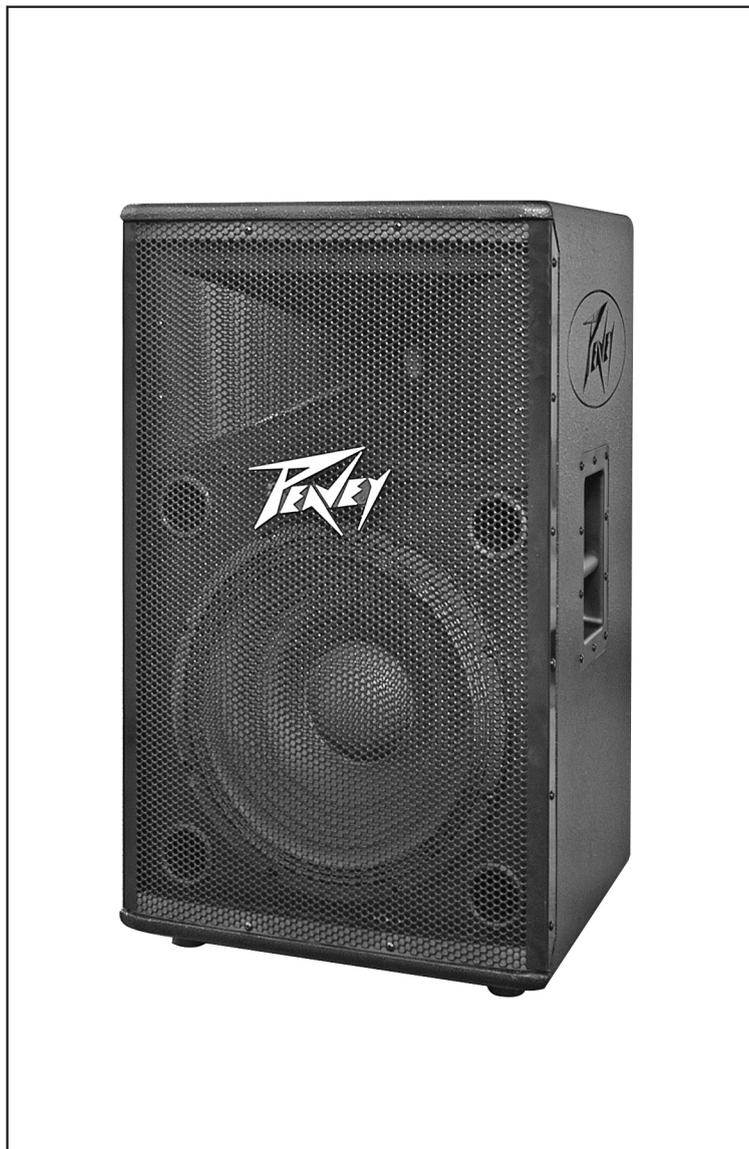


# DPE 115



**Crossover Frequency (internal passive):**  
Low Frequency - High Frequency:  
2 kHz

**Impedance (Z):**  
Full Range:  
Nominal: 8  $\Omega$   
Minimum: 5.6  $\Omega$

**Input Connections:**  
2 x NL4 type connectors in parallel

**Enclosure Materials & Finish:**  
18mm Plywood in Black  
Spraying

**Dimensions (H x W x D):**  
Front:  
30.5 in. x 19.3 in. x 18.5 in.  
774 mm x 490 mm x 470 mm  
Rear:  
30.5 in. x 12.2 in. x 18.5 in.  
774 mm x 310 mm x 470 mm

**Net Weight:**  
92 Lbs. (41.5 kg)

**Usable Low Frequency limit (-10 dB point):**  
45 Hz — 21 kHz

**Frequency Response, 1 meter on-axis, swept-sine in anechoic environment:**  
63Hz-17KHz ( $\pm 3$ dB)

**Sound Pressure Level, 1 Watt, 1 meter in anechoic environment:**  
Full Range:  
95 dB SPL, (2.83 V input)

**Power Handling:**  
Full Range:  
700 W program  
1400 W peak

**Maximum Sound Pressure Level (1 meter):**  
Full Range:  
121 dB SPL continuous  
127 dB SPL peak

**Transducer Complement:**  
Low Frequency Section:  
15" of 3" Voice Coil Heavy Duty Cast Frame Woofer  
High Frequency Section:  
RX 33 Titanium  
3" Compression driver

**Box Tuning Frequency:**  
Low Frequency Section:  
40 Hz

## Features

- RX 33 driver protection circuit
- 90 x 40 large format mouth constant directivity horn
- 15" of 3" Voice Coil Heavy Duty Cast Frame Woofers
- 2 x NL4 Type connectors
- 700 watts program power
- Perforated metal grill
- Smooth round metal handles
- Painted Enclosure



# DPE 115

## Description

The DPE 115 is a full range two-way speaker system utilizing a 15" of 3" voice coil heavy duty cast frame woofer and a RX 33 titanium compression driver for the highs. The driver circuit contains Sound Guard III compression driver protection network. The passive crossover design gives the best system response for the CD horn and woofer.

A 1-3/8" stand adapter is installed and 2xNL4 type connectors are connected in parallel for daisy chaining.

## Frequency Response

This measurement is useful in determining how accurately a given unit reproduces an input signal. The frequency response of the DPE 115 is measured at a distance of 1-meter using a 1 watt (into the nominal impedance) swept-sine input signal. As shown in figure 1, the selected drivers in the DPE 115 combine to give a smooth frequency response from 63 Hz - 17kHz.

## Power Handling

There are many different approaches to power handling ratings. Peavey rates this loudspeaker system's power handling using a full-range form of the AES Standard 2-1984. Using audio band 20 Hz to 20 kHz pink noise with peaks of four times the RMS level, this strenuous test signal assures the user that every portion of this system can withstand today's high technology music. This rating is contingent upon having a minimum of 3 dB of amplifier headroom available.

## Harmonic Distortion

Second and third harmonic distortions vs. frequency are plotted in figure 3 at one percent (1%) of rated input power or one watt whichever is greater. Distortion is read from the graph as the difference between the fundamental signal (frequency response) and the desired harmonic. As an example, a distortion curve that is down 40 dB from the fundamental is equivalent to 1% distortion.

## Architectural & Engineering Specifications

The loudspeaker system shall have an operating bandwidth of 63 Hz - 17 kHz. The nominal output level shall be 95 dB when measured at a distance of one meter with an input of one watt. The nominal impedance shall be 8 ohms. The maximum program power of 700 watts and a peak power input of at least 1400 watts, with a minimum amplifier headroom of 3 dB. The nominal radiation geometry shall be 90 degrees in the horizontal plane and 40 degrees in the vertical plane. The outside dimensions shall be 30.5 inches high by 19.3 inches wide by 18.5 inches deep. The weight shall be 92 pounds. The loudspeaker system shall be a model DPE 115 .

## Amplitude Response(1W 1m On-Axis)

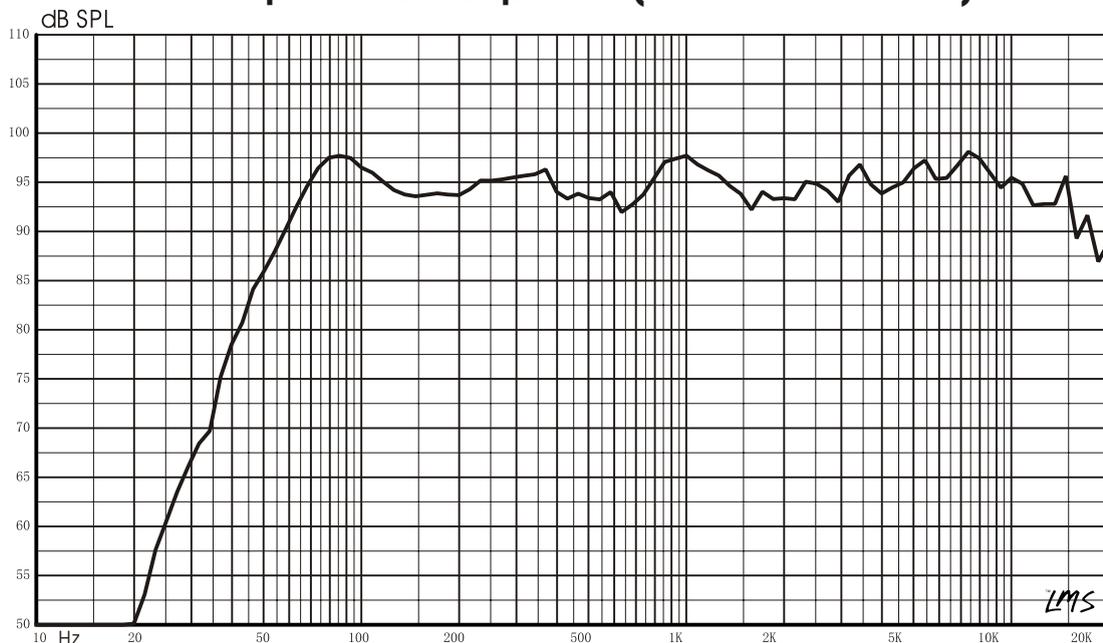


Figure 1



# DPE 115

## Impedance

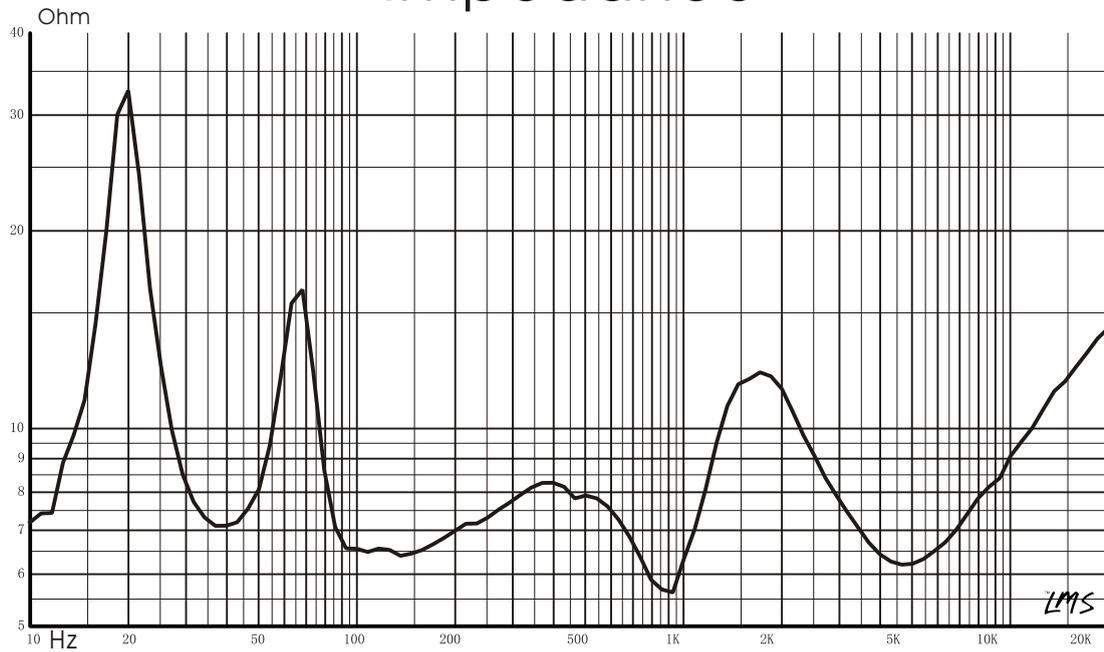


Figure 2

## Harmonic Distortion: 1% Rated Power

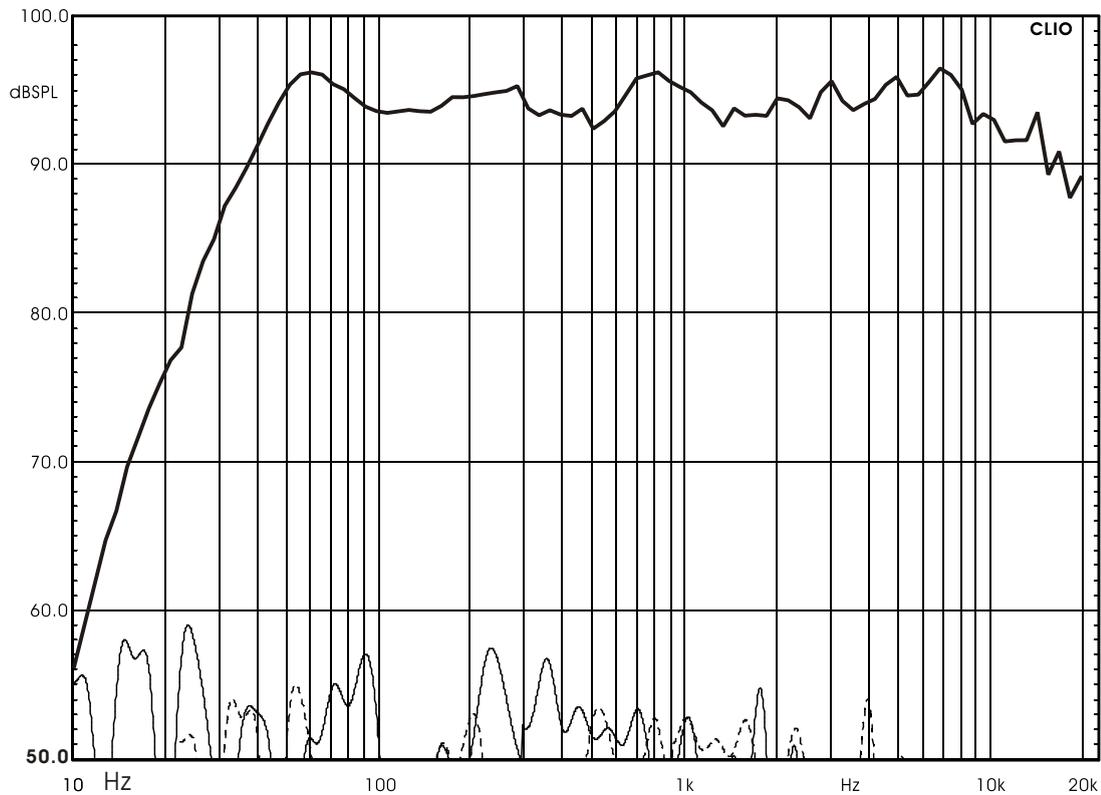


Figure 3

— 2nd Harmonic  
- - - 3rd Harmonic



# DPE 115



Logo referenced in Directive 2002/96/EC  
Annex IV (OJ(L)37/38, 13.02.03) and  
defined in EN 50419:2005

The bar is the symbol for marking of new waste  
and is applied only to equipment manufactured  
after 13 August 2005



*Insert current warranty info here*

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