

## P 12 R - 8 Ω Guitar Loudspeaker

### GENERAL CHARACTERISTICS

|                                   |      |    |
|-----------------------------------|------|----|
| Nominal Overall Diameter .....    | 306  | mm |
| Nominal Voice Coil Diameter ..... | 25   | mm |
| Magnet Weight .....               | 200  | g  |
| Flux Density.....                 | 0.96 | T  |

### THIELE-SMALL PARAMETERS

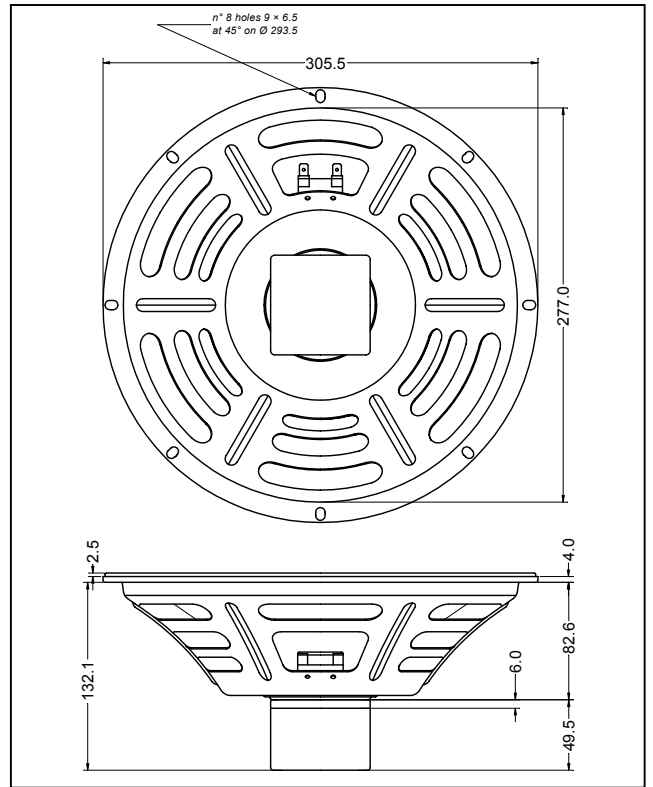
|                                    |              |       |                 |
|------------------------------------|--------------|-------|-----------------|
| Voice Coil DC Resistance .....     | $R_E$        | 6.00  | Ω               |
| Resonance Frequency .....          | $f_s$        | 80.0  | Hz              |
| Mechanical Q Factor.....           | $Q_{MS}$     | 12.73 |                 |
| Electrical Q Factor.....           | $Q_{ES}$     | 2.09  |                 |
| Total Q Factor .....               | $Q_{TS}$     | 1.79  |                 |
| Mechanical Moving Mass .....       | $M_{MS}$     | 20.3  | g               |
| Mechanical Compliance .....        | $C_{MS}$     | 196.0 | μm/N            |
| Force Factor .....                 | $B \times l$ | 5.55  | Wb/m            |
| Equivalent Acoustic Volume.....    | $V_{AS}$     | 66.4  | lt.             |
| Maximum Linear Displacement ....   | $X_{MAX}$    | 1.00  | mm              |
| Reference Efficiency .....         | $\eta_0$     | 1.56  | %               |
| Diaphragm Area .....               | $S_D$        | 490.8 | cm <sup>2</sup> |
| Losses Electrical Resistance.....  | $R_{ES}$     | 39.0  | Ω               |
| Voice Coil Inductance @ 1kHz ..... | $L_E$        | 0.50  | mH              |

### CONSTRUCTIVE CHARACTERISTICS

|                         |                     |
|-------------------------|---------------------|
| Magnet.....             | Alnico              |
| Voice Coil Winding..... | Copper              |
| Voice Coil Former.....  | Kapton              |
| Cone .....              | Paper               |
| Surround.....           | Integrated Paper    |
| Dust Dome .....         | Solid Paper         |
| Basket .....            | Pressed Sheet Steel |

### ELECTRICAL CHARACTERISTICS

|   |          |    |
|---|----------|----|
| Nominal Impedance.....                    | <b>8</b> | Ω  |
| Rated Power (DIN 45573 - IEC 268.5) ..... | 25       | W  |
| Musical Power (DIN 45500) .....           | 50       | W  |
| Sensitivity @ 1 W, 1 m .....              | 95.0     | dB |



Frequency Response on IEC Baffle (DIN 45575) @ 1 W, 1 m  
Impedance

