PROFESSIONAL LOUDSPEAKERS

# 12PR320

12" - 300 W - 96 dB - 16 Ohm



## NOMINAL SPECIFICATIONS

| | |
|---|---|
| Nominal Diameter | 300 mm (12 in) |
| Overall Diameter | 316 mm (12.44 in) |
| Bolt Circle Diameter | 298.5 mm (11.75 in) |
| Baffle Cutout Diameter | 282 mm (11.10 in) |
| Depth | 135 mm (5.31 in) |
| Flange and Gasket Thickness | 12 mm (0.47 in) |
| **Net Weight** | **2.75 kg (6.1 lb)** |
| Shipping Box (Single Carton Box) | 350 x 346 x 190 mm (13.8 x 13.6 x 7.5 in) |
| Shipping Weight | 3.4 kg (7.5 lb) |

## PART NUMBER

| | |
|---|---|
| Push Terminals - 16 Ohm Version | 03004314 |

**NOTES:**

**(1)** 2 Hours Test According to AES 2-1984 Rev. 2003

**(2)** Maximum power is defined as 3dB greater than nominal power.

**(3)** Treated Polycotton

**(4)** Xmax= [(winding depth - magnetic gap depth)/2] + (magnetic gap depth/3)

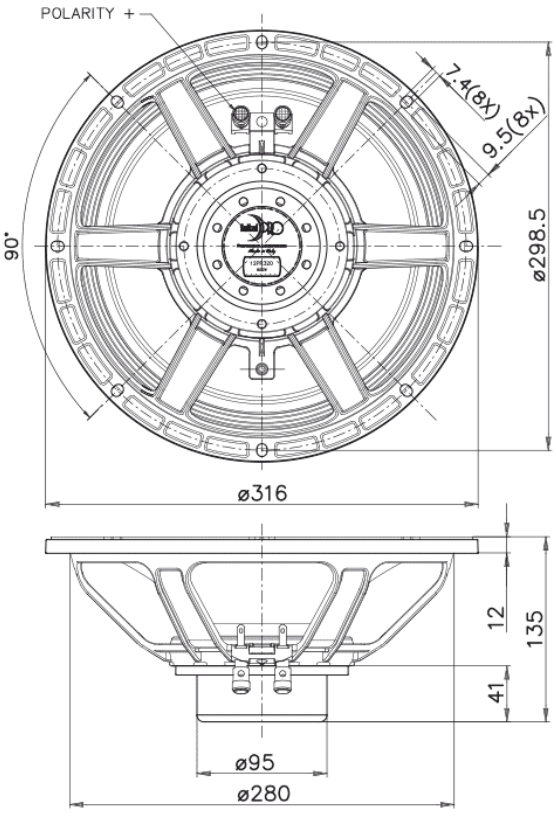
**(5)** Maximum excursion before permanent damage

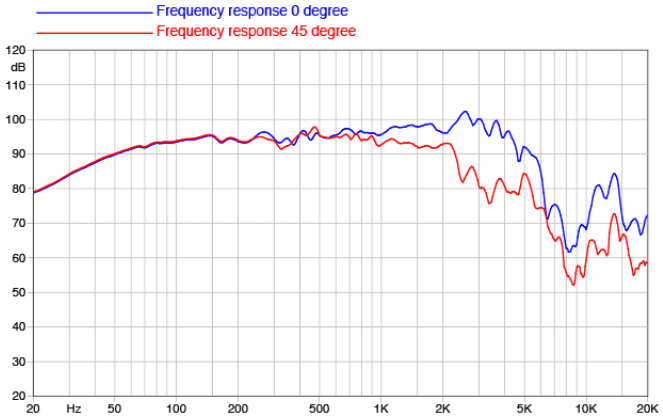
## TECHNICAL PARAMETERS

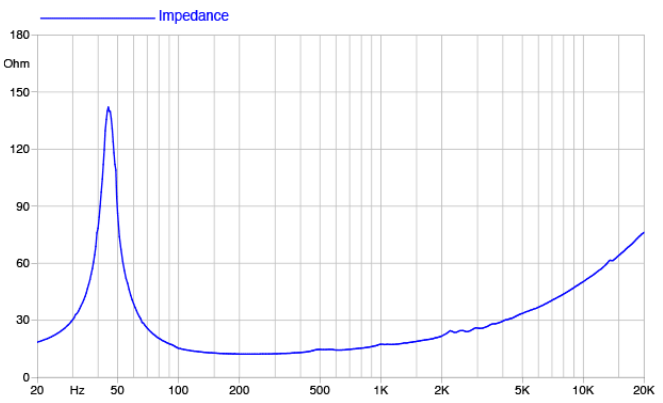
| | |
|---|---|
| Nominal Impedance | 16 Ohm |
| Minimum Impedance | 12.4 Ohm |
| AES Power Handling **(1)** | 300 W |
| **Maximum Power Handling (2)** | **600 W** |
| **Sensitivity (1W/1m)** | **96 dB** |
| Frequency Range | 45÷5000 Hz |
| **Voice Coil Diameter** | **65 mm (2.56 in)** |
| Winding Material | Al |
| Former Material | Glass Fiber |
| Winding Depth | 17.2 mm (0.68 in) |
| **Magnetic Gap Depth** | **8 mm (0.31 in)** |
| Flux Density | 1.2 T |
| Magnet | Neodymium Slug |
| Basket Material | Aluminum |
| Demodulation | No |
| Cone Surround **(3)** | Triple Roll |
| NET Air Volume filled by Loudspeaker | 1.9 dm^3 (0.067 ft^3) |
| Spider Profile | 1x variable height waves |

## THIELE & SMALL PARAMETERS

| | |
|---|---|
| Fs | 45 Hz |
| Re | 11.3 Ohm |
| Qes | 0.56 |
| Qms | 7.6 |
| Qts | 0.52 |
| Vas | 96.7 dm^3 (3.41 ft^3) |
| Sd | 539 cm^2 (83.55 in^2) |
| Xmax **(4)** | 7.27 mm |
| Xdamage **(5)** | 17 mm |
| Mms | 52.5 g |
| Bl | 17.3 N/A |
| Le | 0.96 mH |
| Mmd | 38.3 g |
| Cms | 0.24 mm/N |
| Rms | 1.9 kg/s |
| Eta Zero | 1.52 % |
| EBP | 80 Hz |





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