DESCRIPTION

The VHF100 high frequency compression driver is a high output, high sensitivity loudspeaker excelling in applications requiring extended high frequency response with minimal distortion. The VHF100 is a ring-type radiator with a unique, non-metallic, suspensionless diaphragm designed to exhibit unparalleled transient response. The voice coil is wound on the outer periphery of the diaphragm. This results in a large diameter voice coil to improve power handling while providing very low inductance to prevent reactance-induced high frequency roll-off. There is a single, annular phase plug slot that, coupled with the 0.25 in. / 6.4 mm width diaphragm, ensures all frequencies arrive at the driver exit in phase.

Community drivers incorporate large area, low compression phase plug loading and large magnet structures for extremely low distortion at high outputs while maintaining high efficiency and low power compression. There is a two year warranty.

APPLICATIONS:

- Two, Three and Four-Way Component Systems

FEATURES:

- 1 In. (25 mm) Throat Exit
- Very Low Distortion, High Efficiency
- High Peak Capability
- VHF Output Exceeds That of Most HF and VHF Drivers

SPECIFICATIONS (See notes 1 - 3)

Driver Type: 1 in. / 25 mm exit, high frequency
Operating Range: 1.8 kHz - 18 kHz
- 1.8 kHz - 18 kHz (+/-3.3dB)

Max Input Ratings:
- 20W continuous, 50W Program
- 13 volts RMS, 28 volts momentary peak
Recommended Power Amplifier:
- 40W to 60W @ 8 Ohms

Sensitivity 1W/1m:
- 111 dB SPL (2 kHz - 16 kHz 1/3 octave bands)
Maximum Output:
- 124 dB SPL / 131 dB SPL (peak)
Nominal Impedance:
- 8 Ohms
Min Impedance:
- 9.5 Ohms @ 7160 Hz
Compression Ratio:
- 4:1
Lowest Crossover Frequency:
- 1.8 kHz
Optimum Crossover Frequency:
- 2.5 kHz to 5 kHz

Recommended LF Protection Capacitor: *
- 16 mfd non-polar (for 2.5 kHz crossover)

Diaphragm:
- Diameter: 2 in. / 51 mm O.D. x 1.75 in / 44 mm I.D.
- Material: Non-metallic

Voice Coil:
- Diameter: 2 in. / 51 mm
- Material: Copper-clad aluminum edgewound wire

Input Connection:
- (2) 3/16 in. widetabs

Bolt Pattern:
- (4) 1/4-20 threaded holes on 3 in / 76 mm bolt circle

Required Accessories:
- Electronic crossover

Supplied Accessories:
- (2) 1/4-20 washer / lockwasher / nut sets
- (2) 1/4-20 threaded studs

Recommended Community Horns:
- PC694 - 90 x 40 high frequency horn
- PC664 - 60 x 40 high frequency horn
- PC642 - 40 x 20 high frequency horn

Dimensions (without mounting studs):
- Depth: 1.8 in. / 46 mm
- (2.8 in. / 71 mm with mounting studs installed)
- Diameter: 5.25 in. / 133 mm
- Weight: 5.9 lb. / 2.7 kg
- Shipping Weight: 7 lb. / 3.2 kg

1. Sensitivity: Free field pink noise measurement at 15 ft / 4.6 m at 75% power; extrapolated to 1 meter and an input of 2.83 volts RMS.
2. Watts: All wattage figures are calculated using the rated nominal impedance.
3. Data: All performance data measured on a PC694 90 x 40 horn

* Capacitor is only for protection against DC voltage or catastrophic amplifier failure and not to be used as a crossover.

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**Specifications subject to change without notice.**