



## 12W75-8XH

### BASS/MID RANGE DRIVER



#### GENERAL SPECIFICATIONS

Part Number	12W75-8XH
Nominal Diameter	316mm (12in)
Nominal Impedance	8Ω
Minimum Impedance	5.4Ω
AES Power Handling <sup>1</sup>	350W
Maximum Power Handling <sup>2</sup>	700W
Sensitivity (1W/1m) <sup>3</sup>	98dB
Resonance Frequency	50Hz
Frequency Range	50Hz-3kHz
Voice Coil Diameter	75.55mm
Winding Material	Aluminum
Former Material	Glass Fiber
Winding Depth	16.4mm
Magnetic Gap Depth	10mm
X <sub>max</sub> <sup>4</sup>	6.5mm
Flux Density	1.15T
Basket Material	Cast Aluminum
Magnet Material	Ferrite
Suspension Material	Fabric
Surround Material	M-Roll Cloth-sealed
Cone Material	Curvilinear Paper
Net Weight	5.8kg

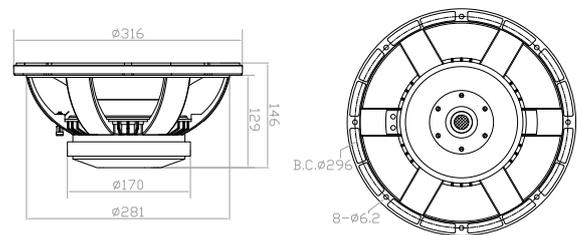
#### TS Parameters<sup>5</sup>

F <sub>s</sub>	48Hz	Q <sub>ms</sub>	6.5
R <sub>e</sub>	5.0Ω	Q <sub>es</sub>	0.42
L <sub>e</sub>	0.47mH	Q <sub>ts</sub>	0.39
M <sub>ms</sub>	67g	V <sub>as</sub>	65L
M <sub>md</sub>	60g	Ref. Efficiency	1.6%
C <sub>ms</sub>	0.16mm/N	S <sub>d</sub>	531cm <sup>2</sup>
BL	15.5Tm	EBP	114Hz

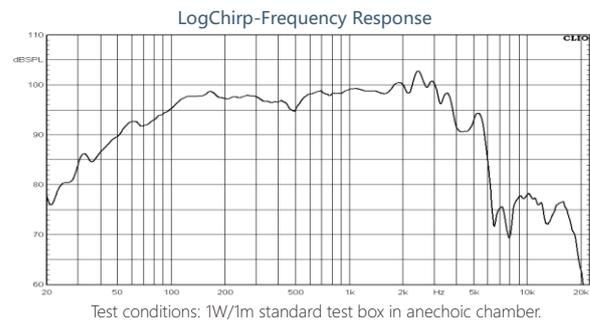
#### KEY FEATURES

- 98dB 1W/1m sensitivity
- 350W AES power handling
- 50Hz-3kHz frequency response
- 75.55mm (3.0in) aluminum voice coil
- Aluminum demodulating ring for lower distortion
- Ventilated voice coil gap for reduced power compression
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for compact two way systems

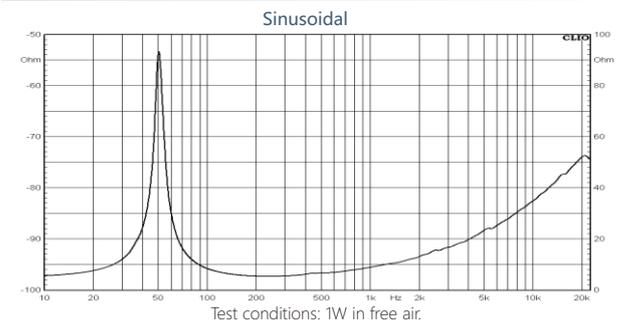
#### MECHANICAL DRAWING



#### FREQUENCY RESPONSE CURVE



#### IMPEDANCE CURVE



#### NOTES

1. Two hours test according to AES 2-1984 Rev. 2003.  
Power calculated on rated minimum impedance.
2. Maximum power is defined as 3dB greater than Nominal power.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. X<sub>max</sub>=[(winding depth-magnetic gap depth)/2]+(magnetic gap depth/3).
5. Thiele-Small parameters are measured after a preconditioning test.
6. Power test by continuous pink noise signal within the frequency range.